

VIENNA SUMMER OF LOGIC 2014



Day by Day Program

Vienna, July 9-24, 2014

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Conference and Workshop Locations

Conference	Building	Area	Floor	Rooms
CAV	Freihaus (FH)	Area A, Green	2	Hörsaal 6 on July 18
	Freihaus (FH)	Area C, Red	1	Hörsaal 1 for the other days
CSL-LICS	Freihaus (FH)	Area C, Red	1	Hörsaal 1
	Freihaus (FH)	Area A, Green	2	Hörsaal 5
CSF	Freihaus (FH)	Area A, Green	2	Hörsaal 6
ICLP	Freihaus (FH)	Area B, Yellow	2	Hörsaal 8
IJCAR	Freihaus (FH)	Area A, Green	2	Hörsaal 5
ITP	Freihaus (FH)	Area B, Yellow	2	Hörsaal 8
RTA-TLCA	Treitlstraße		Ground floor	Informatikhörsaal (enter through Treitlstraße 3)
SAT	Freihaus (FH)	Area A, Green	2	Hörsaal 6
KR	Gußhausstraße (EI)	CD Trakt	Ground floor	EI 7
	Gußhausstraße (EI)	CA Trakt	Ground floor	EI 9
DL	Gußhausstraße (EI)	CD Trakt	Ground floor	EI 7
NMR	Gußhausstraße (EI)	CA Trakt	Ground floor	EI 9
LATD	Main Building (MB)	Stiege 1	1	Festsaal
Logic Colloquium	Main Building (MB)	Stiege 1	1	Prechtl-Saal (main room, for plenary talks, tutorials)
	Main Building (MB)	Stiege 3	3	Hörsaal 14
	Main Building (MB)	Stiege 3	3	Hörsaal 15
	Main Building (MB)	Stiege 7	1	Aufbaulabor
	Main Building (MB)	Stiege 6	4	Seminarraum 2
	Main Building (MB)	Stiege 6	4	Seminarraum 3
	Main Building (MB)	Stiege 6	4	Seminarraum 4
	Main Building (MB)	Stiege 6	4	Seminarraum 6
	Main Building (MB)	Stiege 6	4	Seminarraum 7
	Main Building (MB)	Stiege 2	3	Seminarraum 212/232
	Main Building (MB)	Stiege 5	2	Seminarraum 225
	Main Building (MB)	Stiege 4a	Ground floor	GUT Schulungsraum
	Main Building (MB)	Stiege 1	4	Seminarraum Kuppel
	Main Building (MB)	Stiege 1	3	Zeichensaal 15
	Main Building (MB)	Stiege 6	4	Seminarraum 5/260

Workshop	Building	Area	Floor	Room
2FC	Freihaus (FH)	Area A, Green	8	Dissertantenraum
ACL2	Freihaus (FH)	Area B, Yellow	2	Hörsaal 7
ADDCT	Freihaus (FH)	Area A, Green	8	Zeichensaal 1
AISS	Freihaus (FH)	Area B, Yellow	5	Seminarraum 134
APPA	Freihaus (FH)	Area B, Yellow	4	Seminarraum 325/1
ARQNL	Freihaus (FH)	Area B, Yellow	9	Seminarraum 138C
ARW-DT	Freihaus (FH)	Area B, Yellow	2	Hörsaal 3
ASA	Main Building (MB)	Stiege 4	1	Zeichensaal 13
ASPOCP	Freihaus (FH)	Area B, Yellow	7	Seminarraum 138A
CHR	Freihaus (FH)	Area B, Yellow	2	Hörsaal 7
CICLOPS-WLPE	Freihaus (FH)	Area B, Yellow	2	Hörsaal 7
CLC	Freihaus (FH)	Area A, Green	8	Dissertantenraum
Coq	Main Building (MB)	Stiege 3	3	Hörsaal 14A
CSPSAT	Main Building (MB)	Stiege 1	3	Zeichensaal 15

Conference and Workshop Locations

DCM	Freihaus (FH)	Area C, Red	7	Seminarraum 138B
DTP	Freihaus (FH)	Area B, Yellow	4	Seminarraum 325/1
EC2	Freihaus (FH)	Area A, Green	4	Seminarraum 101C
FCS-FCC	Main Building (MB)	Stiege 7	Ground floor	Hörsaal 7
FRIDA	Freihaus (FH)	Area A, Green	5	Seminarraum 104
FWFM	Freihaus (FH)	Area B, Yellow	5	Seminarraum 134
GeTFun 2.0	Freihaus (FH)	Area B, Yellow	2	Hörsaal 4
GSB	Freihaus (FH)	Area B, Yellow	7	Seminarraum 138A
HCVS	Freihaus (FH)	Area B, Yellow	5	Seminarraum 134A
HOL	Freihaus (FH)	Area A, Green	7	CAD 2
HOPA	Freihaus (FH)	Area B, Yellow	9	Seminarraum 138C
HOR	Freihaus (FH)	Area A, Green	4	Seminarraum 101C
HSB	Freihaus (FH)	Area A, Green	3	Seminarraum 101A
IFIP-WG16	Freihaus (FH)	Area A, Green	4	Seminarraum 101C
iPRA	Freihaus (FH)	Area A, Green	3	Seminarraum 101A
Isabelle	Freihaus (FH)	Area B, Yellow + Area A, Green	Yellow: 9 / Green: 8	Seminarraum 138C + Zeichensaal 1
ITRS	Main Building (MB)	Stiege 4	1	Zeichensaal 14
IWC	Freihaus (FH)	Area B, Yellow	4	Seminarraum 303
KR4HC	Gußhausstraße (EI)	CD Trakt	Ground floor	EI 8
LaSh	Main Building (MB)	Stiege 7	1	Aufbaulabor
LCC	Freihaus (FH)	Area A, Green	8	Zeichensaal 3
LFMTP	Freihaus (FH)	Area A, Green	8	Zeichensaal 1
LG	Main Building (MB)	Stiege 6	2	Hörsaal 12
LINEARITY	Freihaus (FH)	Area B, Yellow	10	Seminarraum 136
LOLA	Freihaus (FH)	Area A, Green	6	Seminarraum 107
LSB	Freihaus (FH)	Area B, Yellow	5	Seminarraum 134A
NCPROOFS	Freihaus (FH)	Area A, Green	5	Seminarraum 104
NLCS	Freihaus (FH)	Area A, Green	7	CAD 2
NLSR	Freihaus (FH)	Area A, Green	7	CAD 2
NSV	Freihaus (FH)	Area B, Yellow	2	Hörsaal 2
ORE	Freihaus (FH)	Area A, Green	3	Seminarraum 101A
PAAR	Freihaus (FH)	Area B, Yellow	2	Hörsaal 7
ParSearchOpt	Main Building (MB)	Hof 1	Ground floor	Hörsaal 4
PAS	Freihaus (FH)	Area B, Yellow	7	Seminarraum 138A
PC	Freihaus (FH)	Area A, Green	3	Seminarraum 101B
PCCR	Freihaus (FH)	Area B, Yellow	2	Hörsaal 3
PLP	Freihaus (FH)	Area B, Yellow	5	Seminarraum 134
POS	Freihaus (FH)	Area B, Yellow	2	Hörsaal 3
PRUV	Freihaus (FH)	Area A, Green	8	CAD 1
PSC	Freihaus (FH)	Area A, Green	8	CAD 1
QBF	Freihaus (FH)	Area B, Yellow	2	Hörsaal 2
QED	Freihaus (FH)	Area B, Yellow	2	Hörsaal 4
QUANTIFY	Freihaus (FH)	Area B, Yellow	10	Seminarraum 136
RCRA	Main Building (MB)	Stiege 6	2	Hörsaal 12
REORDER	Freihaus (FH)	Area B, Yellow	2	Hörsaal 4
RS	Freihaus (FH)	Area A, Green	8	Zeichensaal 3
SD	Freihaus (FH)	Area A, Green	8	Zeichensaal 1
SMT	Freihaus (FH)	Area A, Green	5	Seminarraum 104
STAST	Main Building (MB)	Stiege 2	3	Seminarraum 212/232
SYNT	Freihaus (FH)	Area A, Green	3	Seminarraum 101B

Conference and Workshop Locations

TERMGRAPH	Freihaus (FH)	Area B, Yellow	3	Seminarraum 325/2
UITP	Freihaus (FH)	Area A, Green	6	Seminarraum 107
UNIF	Freihaus (FH)	Area A, Green	5	Seminarraum 104
VAMPIRE	Freihaus (FH)	Area B, Yellow	5	Seminarraum 134
VEMDP	Freihaus (FH)	Area B, Yellow	10	Seminarraum 136
VERIFY	Freihaus (FH)	Area B, Yellow	2	Hörsaal 3
VeriSure	Freihaus (FH)	Area B, Yellow	2	Hörsaal 2
VPT	Freihaus (FH)	Area A, Green	8	Dissertantenraum
VSTTE	Freihaus (FH)	Area A, Green	8	Zeichensaal 3
WING	Freihaus (FH)	Area B, Yellow	2	Hörsaal 3
WIR	Freihaus (FH)	Area A, Green	4	Seminarraum 101C
WPTE	Freihaus (FH)	Area B, Yellow	2	Hörsaal 4
WST	Freihaus (FH)	Area A, Green	3	Seminarraum 101B
WWV	Freihaus (FH)	Area A, Green	6	Seminarraum 107

Program on Wednesday, July 9th

Program on Wednesday, July 9th

Conferences:

INFINITY: Infinity (Vienna Summer of Logic)

Program on Wednesday, July 9th

INFINITY

14:00-15:00
INFINITY
Session 1
Models and Sets Session - Invited Talk

15:15-16:15
INFINITY
Session 2
Computations and Sets Session -
Invited Talk

16:45-17:45
INFINITY
Session 3
Proofs and Sets Session - Invited Talk

Program on Wednesday, July 9th

Session 1 (INFINITY): Models and Sets Session - Invited Talk

14:00-15:00

Chair:

Location: Kurt Gödel Research Center

14:00-15:00 J. Baldwin. Interactions of Set Theory, $L_{\{\omega_1, \omega\}}$, and AEC

Session 2 (INFINITY): Computations and Sets Session - Invited Talk

15:15-16:15

Chair:

Location: Kurt Gödel Research Center

15:15-16:15 A. Beckmann. Proof Theoretic Characterisations of Feasible Set Functions

Session 3 (INFINITY): Proofs and Sets Session - Invited Talk

16:45-17:45

Chair:

Location: Kurt Gödel Research Center

16:45-17:45 U. Buchholtz. Systems of Strength $H(1)$

Program on Thursday, July 10th

Program on Thursday, July 10th

Conferences:

INFINITY: Infinity (Vienna Summer of Logic)

Program on Thursday, July 10th

INFINITY
08:30-09:30 INFINITY Session 4 Computations and Sets Session - Invited Talk
09:45-10:45 INFINITY Session 5 Models and Sets Session - Invited Talk
11:15-12:15 INFINITY Session 6 Computations and Models Session - Invited Talk
14:00-15:00 INFINITY Session 7 Models and Sets Session - Invited Talk
15:15-16:15 INFINITY Session 8 Computations and Models Session - Invited Talk
16:45-17:45 INFINITY Session 9 Computations and Models Session - Invited Talk

Program on Thursday, July 10th

Session 4 (INFINITY): Computations and Sets Session - Invited Talk
08:30-09:30

Chair:

Location: Kurt Gödel Research Center

08:30-09:30 A. Beckmann, S. Buss, S.-D. Friedman, M. Mueller and N. Thapen. Cobham Recursive Set Functions

Session 5 (INFINITY): Models and Sets Session - Invited Talk
09:45-10:45

Chair:

Location: Kurt Gödel Research Center

09:45-10:45 T. Hyttinen. Infinitely deep languages and neighbors

Session 6 (INFINITY): Computations and Models Session - Invited Talk
11:15-12:15

Chair:

Location: Kurt Gödel Research Center

11:15-12:15 J. Knight. Computing a floor function

Session 7 (INFINITY): Models and Sets Session - Invited Talk
14:00-15:00

Chair:

Location: Kurt Gödel Research Center

14:00-15:00 C. Laskowski, J. Baldwin and M. Koerwien. When excellence and local finiteness collide

Session 8 (INFINITY): Computations and Models Session - Invited Talk
15:15-16:15

Chair:

Location: Kurt Gödel Research Center

15:15-16:15 R. Miller. Functors in Computable Model Theory

Session 9 (INFINITY): Computations and Models Session - Invited Talk
16:45-17:45

Chair:

Location: Kurt Gödel Research Center

16:45-17:45 A. Montalban. Classes of structures with no intermediate isomorphism problems

Program on Friday, July 11th

Program on Friday, July 11th

Conferences:

INFINITY: Infinity (Vienna Summer of Logic)

Program on Friday, July 11th

INFINITY
08:30-09:30 INFINITY Session 10 Proofs and Sets Session - Invited Talk
09:45-10:45 INFINITY Session 11 Computations and Sets Session - Invited Talk
11:15-12:15 INFINITY Session 12 Proofs and Sets Session - Invited Talk

Program on Friday, July 11th

Session 10 (INFINITY): Proofs and Sets Session - Invited Talk
08:30-09:30

Chair:

Location: Kurt Gödel Research Center

08:30-09:30 M. Rathjen. Power Kripke-Platek set theory, ordinal analysis and global choice

Session 11 (INFINITY): Computations and Sets Session - Invited Talk
09:45-10:45

Chair:

Location: Kurt Gödel Research Center

09:45-10:45 N. Thapen, A. Beckmann, S.-D. Friedman, S.R. Buss and M. Müller. Set functions with small circuits

Session 12 (INFINITY): Proofs and Sets Session - Invited Talk
11:15-12:15

Chair:

Location: Kurt Gödel Research Center

11:15-12:15 A. Weiermann. Analytic combinatorics of the transfinite

Program on Saturday, July 12th

Program on Saturday, July 12th

Conferences:

2FC: Two Faces of Complexity 2014

ACL2: 12th International Workshop on the ACL2 Theorem Prover and its Applications

HOR: 7th International Workshop on Higher-Order Rewriting

LCC: Workshop on Logic and Computational Complexity

PC: FLoC Workshop on Proof Complexity

SD: 3rd Workshop on Structures and Deduction

WIR: Workshop on Infinitary Rewriting

Program on Saturday, July 12th

2FC	ACL2	HOR	LCC	PC	SD
	09:00-10:15 ACL2 Session 14 Improvements to ACL2	08:45-10:15 HOR Session 13B Calculi	08:45-10:15 LCC Session 13A LCC Opening and Invited Talk (Moser)		09:10-10:15 SD Session 15 Lambda Calculus
10:15-10:45 Coffee Break					
	10:45-13:00 ACL2 Session 16C Datatypes and machine learning	10:45-12:00 HOR Session 16D Foundations 12:00-13:00 HOR Session 17A HOR/WIR Invited Talk	10:45-12:45 LCC Session 16B Contributed Talks	10:45-12:00 PC Session 16A PC Opening and Invited Talk (Pavel Pudlak) 12:00-13:00 PC Session 17B Contributed Talks: SAT and QBF	10:45-12:45 SD Session 16E Sequent Calculus and Proof Nets
13:00-14:30 Lunch Break					
14:30-16:00 2FC Session 18F	14:30-16:00 ACL2 Session 18C Keynote Mike Gordon		14:30-16:00 LCC Session 18B Invited Talk (Buss) and Contributed Talks	14:30-15:30 PC Session 18A Invited Talk (Jakob Nordström) 15:30-16:00 PC Session 19 Contributed Talk:	14:30-16:00 SD Session 18E Algebra and Topology
16:00-16:30 Coffee Break					
16:30-18:00 2FC Session 20F	16:30-19:00 ACL2 Session 20C Economics, Rump Sessions and Business Meeting		16:30-18:00 LCC Session 20B Contributed Talks	16:30-18:00 PC Session 20A Contributed Talks: Bounded Arithmetic	16:30-17:30 SD Session 20E Normalisation and Ludics
18:15-19:15 2FC Session 21					

Program on Saturday, July 12th

WIR
10:15-10:45 Coffee Break
12:00-13:00 WIR Session 17A
13:00-14:30 Lunch Break
14:30-16:00 WIR Session 18D
16:00-16:30 Coffee Break
16:30-18:00 WIR Session 20D WIR Contributed Talks

Program on Saturday, July 12th

Session 13A (LCC): LCC Opening and Invited Talk (Moser)
08:45-10:15

Chair:

Location: FH, Zeichensaal 3

08:45-08:50 A. Beckmann. LCC'14 Opening Remarks

08:50-09:45 G. Moser. Weighted Automata Theory for Complexity Analysis of Rewrite Systems

09:45-10:15 D. Mazza. Non-uniform Polytime Computation in the Infinitary Affine Lambda-calculus

Session 13B (HOR): Calculi
08:45-10:15

Chair: Cynthia Kop

Location: FH, Seminarraum 101C

08:45-09:15 V. van Oostrom and F. van Raamsdonk. The dynamic pattern calculus as a higher-order pattern rewriting system

09:15-09:45 B. Accattoli. Distilling Abstract Machines

09:45-10:15 K. Rose. Experience with Higher Order Rewriting from the Compiler Teaching Trenches

Session 14 (ACL2): Improvements to ACL2
09:00-10:15

Chair:

Location: FH, Hörsaal 7

09:00-09:30 J. Davis and M. Kaufmann. Industrial-Strength Documentation for ACL2

09:30-10:00 M. Kaufmann and J. Moore. Enhancements to ACL2 in Versions 6.2, 6.3, and 6.4

Session 15 (SD): Lambda Calculus
09:10-10:15

Chair:

Location: FH, Zeichensaal 1

09:10-09:15 W. Heijltjes, K. Chaudhuri and L. Strassburger. Opening Remarks

09:15-10:15 G. Dowek. Simply Typed Lambda-Calculus Modulo Type Isomorphisms

Session 16A (PC): PC Opening and Invited Talk (Pavel Pudlak)
10:45-12:00

Chair: Olaf Beyersdorff

Location: FH, Seminarraum 101B

10:45-11:00 O. Beyersdorff. Opening

11:00-12:00 P. Pudlák. On Some Conjectures in Proof Complexity

Session 16B (LCC): Contributed Talks
10:45-12:45

Chair:

Location: FH, Zeichensaal 3

10:45-11:15 R. Kahle and I. Oitavem. Towards recursion schemata for the probabilistic class PP

11:15-11:45 A. Achilleos and M. Lampis. Closing a Gap in the Complexity of Refinement Modal Logic

11:45-12:15 G. Kovásznaï, H. Veith, A. Fröhlich and A. Biere. On the Complexity of Symbolic Verification and Decision Problems in Bit-Vector Logic

12:15-12:45 T. Antonopoulos, P. Hunter, S. Raza and J. Worrell. First-Order Logic of Order and Metric has the Three-Variable Property

Session 16C (ACL2): Datatypes and machine learning
10:45-13:00

Chair:

Location: FH, Hörsaal 7

10:45-11:15 S. Joosten, C. Kaliszyk and J. Urban. Experiments with TPTP-style Automated Theorem Provers on ACL2 Problems

11:15-11:45 B. Selfridge and E. Smith. Polymorphic Types In ACL2

11:45-12:15 H.R. Chamathi, P. Dillinger and P. Manolios. Data Definitions in ACL2 Sedan

Program on Saturday, July 12th

12:15-12:45 J. Heras and E. Komendantskaya. ACL2(ml): Machine-Learning for ACL2

Session 16D (HOR): Foundations
10:45-12:00

Chair: Beniamino Accattoli

Location: FH, Seminarraum 101C

10:45-11:15 C. Kop. The Higher-order Dependency Pair Framework

11:15-11:45 V. Van Oostrom. Feebly not weakly

11:45-12:00 K. Rose. Report from the HOR 2014 Chair & Discussion

Session 16E (SD): Sequent Calculus and Proof Nets
10:45-12:45

Chair:

Location: FH, Zeichensaal 1

10:45-11:45 R. Iemhoff. Completions and the Schuetze method

11:45-12:15 M. Bagnol, A. Doumane and A. Saurin. A Correctness Criterion Free from Switchings

12:15-12:45 D. Hughes. First-order Proofs Without Syntax: Summary of Work in Progress

Session 17A (HOR, WIR): HOR/WIR Invited Talk
12:00-13:00

Chair: Kristoffer Rose

Location: FH, Seminarraum 101C

12:00-13:00 D. Mazza. On Infinitary Affine Lambda-Calculi

Session 17B (PC): Contributed Talks: SAT and QBF
12:00-13:00

Chair: Olaf Beyersdorff

Location: FH, Seminarraum 101B

12:00-12:30 J. Johannsen, M. Lauria, J. Nordström and M. Vinyals. Size-Space Bounds and Trade-offs for CDCL Proofs

12:30-13:00 H. Chen. Beyond Q-Resolution and Prenex Form: A Proof System for Quantified Constraint Satisfaction

Session 18A (PC): Invited Talk (Jakob Nordström)
14:30-15:30

Chair: Olaf Beyersdorff

Location: FH, Seminarraum 101B

14:30-15:30 J. Nordström. A (Biased) Survey of Space Complexity and Time-Space Trade-offs in Proof Complexity

Session 18B (LCC): Invited Talk (Buss) and Contributed Talks
14:30-16:00

Chair:

Location: FH, Zeichensaal 3

14:30-15:30 S. Buss. Search problems, proof complexity, and second-order bounded arithmetic

15:30-16:00 B. Rossman. Infinite AC0 Circuits for Parity

Session 18C (ACL2): Keynote Mike Gordon
14:30-16:00

Chair:

Location: FH, Hörsaal 7

14:30-15:30 M. Gordon. Linking ACL2 and HOL: past achievements and future prospects

Session 18D (WIR)
14:30-16:00

Chair:

Location: FH, Seminarraum 101C

14:30-15:00 J.G. Simonsen. Dynamical systems, attractors and well-behaved infinitary rewriting

15:00-15:30 F. He and A. Saurin. From the finite to the transfinite: $\Lambda\mu$ -terms and streams.

Program on Saturday, July 12th

15:30-16:00 S. Kahrs and C. Smith. Normal Forms and Infinity

Session 18E (SD): Algebra and Topology

14:30-16:00

Chair:

Location: FH, Zeichensaal 1

14:30-15:30 K. Terui. Proof theory for ordered algebra: amalgamation and densification

15:30-16:00 M. Kerjean. Weak topologies for Linear Logic

Session 18F (2FC)

14:30-16:00

Chair: Georg Moser

Location: FH, Dissertantenraum E104

14:30-15:00 P.-A. Melliès. A cubical representation of local states

15:00-15:30 D. Mazza. Computational complexity in the lambda-calculus: what's new?

15:30-16:00 S. Gimenez. On the parallel reduction and complexity of interaction-net systems

Session 19 (PC): Contributed Talk: Polynomial Calculus

15:30-16:00

Chair: Olaf Beyersdorff

Location: FH, Seminarraum 101B

15:30-16:00 Y. Filmus, M. Lauria, M. Miksa, J. Nordström and M. Vinyals. Towards an Understanding of Polynomial Calculus: New Separations and Lower Bounds

Session 20A (PC): Contributed Talks: Bounded Arithmetic

16:30-18:00

Chair: Olaf Beyersdorff

Location: FH, Seminarraum 101B

16:30-17:00 J.-J. Razafindrakoto and A. Beckmann. Provably Total Search Problems in Fragments of Bounded Arithmetic Below Polynomial-time

17:00-17:30 E. Jeřábek. Parameter-free induction in bounded arithmetic

17:30-18:00 J. Pich. Logical strength of complexity theory and a formalization of the PCP theorem in bounded arithmetic

Session 20B (LCC): Contributed Talks

16:30-18:00

Chair:

Location: FH, Zeichensaal 3

16:30-17:00 S. Toruńczyk. Descriptive Complexity and CSP

17:00-17:30 M. Lange and E. Lozes. Capturing Bisimulation-Invariant Complexity Classes with Higher-Order Modal Fixpoint Logic

17:30-18:00 T. Zeume. Small Dynamic Descriptive Complexity Classes

Session 20C (ACL2): Economics, Rump Sessions and Business Meeting

16:30-19:00

Chair:

Location: FH, Hörsaal 7

16:30-17:00 R. Gamboa and J. Cowles. On Vickrey's Theorem and the Use of ACL2 for Formal Reasoning in Economics

Session 20D (WIR): WIR Contributed Talks

16:30-18:00

Chair:

Location: FH, Seminarraum 101C

16:30-17:00 J. Endrullis, D. Hendriks, J.W. Klop and A. Polonsky. An Introduction to the Clocked Lambda Calculus

17:00-17:30 M. Pagani and B. Valiron. Work in Progress: Algebraic Abstract Reduction Systems

Program on Saturday, July 12th

17:30-18:00 H. Zantema. Turtle graphics of morphic streams

Session 20E (SD): Normalisation and Ludics

16:30-17:30

Chair:

Location: FH, Zeichensaal 1

16:30-17:00 T. Brock-Nannestad. Substructural Cut Elimination

17:00-17:30 C. Fouqueré and M. Quatrini. Multiplicative Decomposition of Behaviours in Ludics

Session 20F (2FC)

16:30-18:00

Chair: Georg Moser

Location: FH, Dissertantenraum E104

16:30-17:00 B. Accattoli. On the Value of Variables

17:00-17:30 M. Avanzini. Automated Complexity Analysis of Term Rewrite Systems

17:30-18:00 U. Dal Lago. Subrecursive Linear Dependent Types and Computational Security

Session 21 (2FC)

18:15-19:15

Chair: Georg Moser

Location: FH, Dissertantenraum E104

18:15-18:45 T. Powell. Proof theoretic approaches to rewriting

Program on Sunday, July 13th

Program on Sunday, July 13th

Conferences:

ACL2: 12th International Workshop on the ACL2 Theorem Prover and its Applications
CLC: Fifth International Workshop on Classical Logic and Computation
DCM: 10th International Workshop on Developments in Computational Models
DTP: Dependently Typed Programming 2014
FWFM: 2nd International Workshop Fun With Formal Methods
GSB: Workshop on Gentzen Systems and Beyond 3
HOL: 2014 International Workshop on the HOL Theorem Proving System
IFIP-WG16: Annual Meeting of the IFIP Working Group 1.6 (Term Rewriting)
IWC: 3rd International Workshop on Confluence
Isabelle: Isabelle Workshop 2014
LCC: Workshop on Logic and Computational Complexity
Linearity: 3rd International Workshop on Linearity
LOLA: 5th Workshop on Syntax and Semantics of Low-Level Languages
LSB: 5th International Workshop on Logic and Systems Biology
ORE: The 3rd OWL Reasoner Evaluation Workshop
PC: FLoC Workshop on Proof Complexity
POS: Fifth Pragmatics of SAT workshop
QBF: Second International Workshop on Quantified Boolean Formulas
TermGraph: 8th International Workshop on Computing with Terms and Graphs
UNIF: The 28th International Workshop on Unification
WPTE: Workshop on Rewriting Techniques for Program Transformations and Evaluation

Program on Sunday, July 13th

ACL2	CLC	DCM	DTP	FWFM	GSB
	08:45-09:00 CLC				
09:00-10:15 ACL2 Session 23E Non-standard Analysis	09:00-10:20 CLC Session 23I	09:15-10:15 DCM Session 24A Joint DCM / TermGraph Invited Talk	09:00-10:15 DTP Session 23G Invited Talk	09:00-10:15 FWFM Session 23H Opening and Invited Talk	09:00-10:15 GSB Session 23B Opening, Invited Talk, and Contributed Talk
10:15-10:45 Coffee Break					
10:45-13:00 ACL2 Session 26R Verification	10:50-13:00 CLC Session 27	10:45-11:45 DCM Session 26T	10:45-13:00 DTP Session 26S Contributed Talks	11:00-13:00 FWFM Session 28B Technical session	10:45-12:50 GSB Session 26G Contributed Talks
12:00-13:00 DCM Session 29C					
13:00-14:30 Lunch Break					
14:30-16:00 ACL2 Session 31N Keynote Magnus Myreen	14:30-16:00 CLC Session 31S	14:30-16:00 DCM Session 31R	14:30-16:00 DTP Session 31P Contributed Talks	14:30-15:30 FWFM Session 31Q Technical session	14:30-16:05 GSB Session 31E Invited Talk and Contributed Talks
15:30-16:00 FWFM Session 33D					
16:00-16:30 Coffee Break					
16:30-18:00 ACL2 Session 34Q Panel Discussion about low-level code verification	16:30-18:00 CLC Session 34U	16:30-18:00 DCM Session 34S	16:30-18:00 DTP Session 34R Contributed Talks		16:30-18:10 GSB Session 34F Contributed Talks

Program on Sunday, July 13th

HOL	IFIP-WG16	IWC	Isabelle	Isabelle	LCC
08:45-10:15 HOL Session 22E HOL Workshop	08:45-10:15 IFIP-WG16 Session 22F Induction and Discussion on ISR		08:45-10:15 Isabelle Session 22B Isabelle tutorial for beginners I	08:45-10:15 Isabelle Session 22C Isabelle workshop	09:00-10:15 LCC Session 23F ImmermanFest Opening and Invited Talk
		09:25-10:15 IWC Session 25 Opening and invited talk			
10:15-10:45 Coffee Break					
10:45-13:00 HOL Session 26I HOL Workshop	10:45-13:00 IFIP-WG16 Session 26P Theorem Proving and MOOCs	10:45-11:45 IWC Session 26J Regular talks	10:45-12:45 Isabelle Session 26D Isabelle tutorial for beginners II	10:45-12:45 Isabelle Session 26E Isabelle workshop	10:45-12:45 LCC Session 26A Invited Talks
		12:00-13:00 IWC Session 29A Regular talks			
13:00-14:30 Lunch Break					
14:30-16:00 HOL Session 31G HOL Workshop	14:30-16:00 IFIP-WG16 Session 31L Normalization and Music	14:30-15:30 IWC Session 31D Joint IWC / TermGraph Invited Talk	14:30-16:00 Isabelle Session 31C Isabelle workshop		14:00-16:00 LCC Session 30 Invited Talks
		15:30-16:00 IWC Session 33B			
16:00-16:30 Coffee Break					
16:30-18:30 HOL Session 34H	16:30-18:00 IFIP-WG16 Session 34N Discussion on RTA, Open Problems, and Business Meeting	16:30-18:15 IWC Session 34I Regular talks, confluence competition (CoCo) and closing	16:30-18:00 Isabelle Session 34D Isabelle workshop		16:30-17:45 LCC Session 34A Invited Talk and Closing
					18:15-21:00 LCC Session 37 Workshop dinner in honor of Immerman

Program on Sunday, July 13th

Linearity	LOLA	LSB	ORE	PC	POS
08:45-10:15 Linearity Session 22A	09:15-10:15 LOLA Session 24E Invited talk	09:15-10:15 LSB Session 24D		09:15-10:15 PC Session 24C Contributed Talks: Proof Complexity	09:00-09:15 POS
					09:15-10:15 POS Session 24B Parallel SAT
10:15-10:45 Coffee Break					
10:45-12:45 Linearity Session 26B	10:45-12:45 LOLA Session 26U Contributed talks	10:45-13:00 LSB Session 26Q	10:45-11:00 ORE	10:45-11:45 PC Session 26N Invited Talk (Albert Atserias)	10:45-13:00 POS Session 26M Analysis
			11:00-13:00 ORE Session 28A Evaluation and Benchmarks	12:00-13:00 PC Session 29B Contributed Talks: Resolution	
13:00-14:30 Lunch Break					
14:30-16:00 Linearity Session 31A	15:00-16:00 LOLA Session 32 Invited talk	14:30-16:00 LSB Session 31M	14:30-15:30 ORE Session 31H Ontologies	14:30-15:30 PC Session 31K Invited Talk (Iddo Tzameret)	14:30-15:30 POS Session 31J Invited talk
			15:30-16:00 ORE Session 33A	15:30-16:00 PC Session 33E	15:30-16:00 POS Session 33C
16:00-16:30 Coffee Break					
16:30-18:30 Linearity Session 34B	16:30-17:30 LOLA Session 34T Contributed talks	16:30-17:30 LSB Session 34P	16:30-17:10 ORE Session 34J Reasoners	16:30-17:30 PC Session 34M Contributed Talks: Proof Complexity	16:30-18:00 POS Session 34L Applications and closing
			17:10-17:15		

Program on Sunday, July 13th

QBF	TermGraph	UNIF	WPTE
08:45-10:15 QBF Session 22D Novel Directions in QBF Research	09:15-10:15 TermGraph Session 24A Joint DCM / TermGraph Invited Talk	09:00-10:15 UNIF Session 23C Opening and Invited Talk 1	09:00-10:15 WPTE Session 23A WPTE Opening and Invited Talk by Andy Gill on HERMIT
10:15-10:45 Coffee Break			
10:45-13:00 QBF Session 26H QBF Proofs and Certificates, DQBF	10:45-12:15 TermGraph Session 26F Computing with Graphs	10:45-13:00 UNIF Session 26L	10:45-13:00 WPTE Session 26C Concurrency, Unfolding, Pi- Calculus, Reaction Networks
13:00-14:30 Lunch Break			
14:30-16:00 QBF Session 31F QBF Applications (1): Incremental QBF Solving	14:30-15:30 TermGraph Session 31D Joint IWC / TermGraph Invited Talk 15:30-16:00 TermGraph Session 33F	14:30-16:00 UNIF Session 31I Invited Talk 2 and Regular Talk	14:30-16:00 WPTE Session 31B Conditional Rewriting, Polymorphic Calculi
16:00-16:30 Coffee Break			
16:30-18:00 QBF Session 34G QBF Applications (2), The QBF Gallery 2014	16:30-17:30 TermGraph Session 34E Implementations	16:30-18:00 UNIF Session 34K	16:30-18:00 WPTE Session 34C Conditional Term Rewriting, Complexity and WPTE Closing
		18:00-19:00 UNIF Session 36	

Program on Sunday, July 13th

Session 22A (Linearity)

08:45-10:15

Chair: Iliano Cervesato

Location: FH, Seminarraum 136

08:45-09:45 E. Pimentel. Modalities and Linearity

09:45-10:15 S. Ronchi Della Rocca, A. Bucciarelli and D. Kesner. The inhabitation problem for non-idempotent intersection

Session 22B (Isabelle): Isabelle tutorial for beginners I

08:45-10:15

Chair:

Location: FH, Zeichensaal 1

08:45-10:15 T. Nipkow. Isabelle tutorial for beginners (part 1)

Session 22C (Isabelle): Isabelle workshop

08:45-10:15

Chair: Lawrence Paulson

Location: FH, Seminarraum 138C

08:45-09:15 J. Avigad, J. Hölzl and L. Serafin. A formally verified proof of the Central Limit Theorem

09:15-09:45 L. Panny, J.C. Blanchette and D. Traytel. Primitively (Co)recursive Definitions for Isabelle/HOL

09:45-10:15 L. Noschinski and C. Traut. Pattern-based Subterm Selection In Isabelle

Session 22D (QBF): Novel Directions in QBF Research

08:45-10:15

Chair:

Location: FH, Hörsaal 2

08:45-09:30 M. Heule. A Unified Proof System for QBF Preprocessing

09:30-10:15 M. Janota. On Instantiation-Based Calculi for QBF

Session 22E (HOL): HOL Workshop

08:45-10:15

Chair:

Location: FH, CAD 2

08:45-09:00 . Organisers. Welcome

09:00-09:30 U. Siddique and S. Tahar. Using HOL4 to Formalize Physical Systems

09:30-10:00 M.O. Myreen. Modernising HOL's documentation

Session 22F (IFIP-WG16): Induction and Discussion on ISR

08:45-10:15

Chair:

Location: FH, Seminarraum 101C

08:45-09:15 T. Aoto and S. Stratulat. Decision Procedures for Proving Inductive Theorems without Induction

09:15-10:00 A. Middeldorp, M. Ayala Rincón and A. Geser. Discussion on the International School on Rewriting (ISR)

Session 22G (CLC): Welcome

08:45-09:00

Chair:

Location: FH, Dissertantenraum E104

Session 23A (WPTE): WPTE Opening and Invited Talk by Andy Gill on HERMIT

09:00-10:15

Chair:

Location: FH, Hörsaal 4

09:00-09:15 M. Schmidt-Schauß. Opening

Program on Sunday, July 13th

09:15-10:15 A. Gill. HERMIT: An Equational Reasoning Model to Implementation Rewrite System for Haskell

Session 23B (GSB): Opening, Invited Talk, and Contributed Talk
09:00-10:15

Chair: Roman Kuznets

Location: FH, Seminarraum 138A

09:00-09:05 . Organizers. Welcome

09:05-09:50 A. Zamansky. Semantics and Proof Theory in Team Play: the case of Paraconsistent Logics

09:50-10:15 O. Lahav and Y. Zohar. On the Construction of Analytic Sequent Calculi for Sub-classical Logics

Session 23C (UNIF): Opening and Invited Talk 1
09:00-10:15

Chair:

Location: FH, Seminarraum 104

09:00-09:15 T. Kutsia and C. Ringeissen. Opening

09:15-10:15 J. Meseguer. Extensible Symbolic System Analysis

Session 23D (POS): Opening
09:00-09:15

Chair: Daniel Le Berre

Location: FH, Hörsaal 3

Session 23E (ACL2): Non-standard Analysis
09:00-10:15

Chair:

Location: FH, Hörsaal 7

09:00-09:30 R. Gamboa and J. Cowles. Formal Verification of Medina's Sequence of Polynomials for Approximating Arctangent

09:30-10:00 J. Cowles and R. Gamboa. Equivalence of the Traditional and Non-Standard Definitions of Concepts from Real Analysis

Session 23F (LCC): ImmermanFest Opening and Invited Talk
09:00-10:15

Chair:

Location: FH, Zeichensaal 3

09:00-09:15 K. Etessami. ImmermanFest Opening Remarks

09:15-10:15 E. Allender. 27 and still counting: Iterated product, inductive counting, and the structure of P

Session 23G (DTP): Invited Talk
09:00-10:15

Chair:

Location: FH, Seminarraum 325/1

09:00-10:00 A. Jeffrey. FRP, LTL and GUIs

Session 23H (FWFM): Opening and Invited Talk
09:00-10:15

Chair:

Location: FH, Seminarraum 134

09:00-09:15 N. Shilov. Fun With Formal Methods 2014: Opening Remarks

09:15-10:15 N. Nepejvoda. Algebraic description of restricted programming and elements of its logics

Session 23I (CLC)
09:00-10:20

Chair:

Location: FH, Dissertantenraum E104

09:00-10:00 A. Miquel. TBC

Program on Sunday, July 13th

10:00-10:20 K. Nakazawa. Extensional Models of Typed Lambda-mu Calculus

Session 24A (DCM, TermGraph): Joint DCM / TermGraph Invited Talk

09:15-10:15

Chair: Femke van Raamsdonk

Location: FH, Seminarraum 325/2

09:15-10:15 I. Mackie. Numeral Systems in the Lambda Calculus

Session 24B (POS): Parallel SAT

09:15-10:15

Chair:

Location: FH, Hörsaal 3

09:15-09:45 G. Audemard, B. Hoessen, S. Jabbour and C. Piette. Dolius: A Distributed Parallel SAT Solving Framework

09:45-10:15 M. Heule, N. Manthey and T. Philipp. Validating Unsatisfiability Results of Clause Sharing Parallel SAT Solvers

Session 24C (PC): Contributed Talks: Proof Complexity

09:15-10:15

Chair: Jan Johannsen

Location: FH, Seminarraum 101B

09:15-09:45 J. Aisenberg, M. Bonnet and S. Buss. Quasipolynomial Size Frege Proofs of Frankl's Theorem on the Trace of Finite Sets

09:45-10:15 A. Das. $n^{O(\log \log n)}$ size monotone proofs of the weak pigeonhole principle

Session 24D (LSB)

09:15-10:15

Chair:

Location: FH, Seminarraum 134A

09:15-10:15 J. Feret. An algebraic approach for inferring and using symmetries in rule-based models

Session 24E (LOLA): Invited talk

09:15-10:15

Chair:

Location: FH, Seminarraum 107

09:15-10:15 N. Benton. De haut en bas: relating high-level and low-level abstractions

Session 25 (IWC): Opening and invited talk

09:25-10:15

Chair:

Location: FH, Seminarraum 303

09:25-10:15 B. Accattoli. On the Formalization of Lambda-Calculus Confluence and Residuals

Session 26A (LCC): Invited Talks

10:45-12:45

Chair:

Location: FH, Zeichensaal 3

10:45-11:45 P. Kolaitis. Some Reflections on Definability and Complexity

11:45-12:45 N. Schweikardt. Crane Beach Revisited

Session 26B (Linearity)

10:45-12:45

Chair: Luca Paolini

Location: FH, Seminarraum 136

10:45-11:15 K. Chaudhuri. Undecidability of Multiplicative Subexponential Logic

11:15-11:45 Z. Sparks and A. Sabry. Superstructural Reversible Logic

11:45-12:15 J. Paykin and S. Zdancewic. A Linear/Producer/Consumer model of Classical Linear Logic

Program on Sunday, July 13th

12:15-12:45 T. Brock-Nannestad and N. Guenot. Cut Elimination in Multifocused Linear Logic

Session 26C (WPTE): Concurrency, Unfolding, Pi-Calculus, Reaction Networks

10:45-13:00

Chair:

Location: FH, Hörsaal 4

10:45-11:15 W. Mansky and E. Gunter. Verifying Optimizations for Concurrent Programs

11:15-11:45 M. Nagashima, T. Kato, M. Sakai and N. Nishida. Inverse Unfold Problem and Its Heuristic Solving

11:45-12:00 . Break. Short break

12:00-12:30 D. Sabel. Structural Rewriting in the Pi-Calculus

12:30-13:00 G. Madelaine, C. Lhoussaine and J. Niehren. Attractor Equivalence: An Observational Semantics for Reaction Networks

Session 26D (Isabelle): Isabelle tutorial for beginners II

10:45-12:45

Chair:

Location: FH, Zeichensaal 1

10:45-12:45 T. Nipkow. Isabelle tutorial for beginners (part 2)

Session 26E (Isabelle): Isabelle workshop

10:45-12:45

Chair: Gerwin Klein

Location: FH, Seminarraum 138C

10:45-10:55 A. Popescu and P. Lammich. The CoCon Experiment

10:55-11:20 P. Lammich. The CAVA Automata Library

11:20-11:45 O. Kunčar and A. Popescu. From Types to Sets in Isabelle/HOL

11:45-12:15 F. Haftmann, A. Lochbihler and W. Schreiner. Towards abstract and executable multivariate polynomials in Isabelle

12:15-12:45 M. Wenzel. Tutorial: Isabelle/jEdit for seasoned Isabelle users

Session 26F (TermGraph): Computing with Graphs

10:45-12:15

Chair: Aart Middeldorp

Location: FH, Seminarraum 325/2

10:45-11:15 S. Antoy, J. Johannsen and S. Libby. Needed Computations Shortcutting Needed Steps

11:15-11:45 N. Eguchi. Proving Termination of Unfolding Graph Rewriting for General Safe Recursion

11:45-12:15 C. Grabmayer and V. van Oostrom. Nested Term Graphs

Session 26G (GSB): Contributed Talks

10:45-12:50

Chair: Anna Zamansky

Location: FH, Seminarraum 138A

10:45-11:10 B. Lellmann. Comparing Sequent Calculi via Hilbert-style Axioms

11:10-11:35 P. Maffezioli and D. Gilbert. Sequent Systems for Classical Modal Logics

11:35-12:00 D. Shamkanov. Lyndon Interpolation for the Modal Mu-Calculus

12:00-12:25 T. Studer. On cuts and cut-elimination in modal fixed point logics

12:25-12:50 G. Greco, S. Frittella, A. Kurz, A. Palmigiano and V. Sikimić. Display-type calculi and their cut elimination metatheorem

Session 26H (QBF): QBF Proofs and Certificates, DQBF

10:45-13:00

Chair:

Location: FH, Hörsaal 2

10:45-11:15 U. Egly. On the Relation between Resolution Calculi for QBFs and First-order Formulas

11:15-11:45 F. Slivovsky and S. Szeider. Resolution Paths and Term Resolution

11:45-12:15 V. Balabanov, J.-H.R. Jiang, M. Janota and M. Widl. Efficient Extraction of QBF (Counter)models from Long-Distance Resolution Proofs

Program on Sunday, July 13th

12:15-12:45 C. Scholl. Dependency Quantified Boolean Formulas - Challenges, Applications, First Lines of Attack

Session 26I (HOL): HOL Workshop
10:45-13:00

Chair:

Location: FH, CAD 2

10:45-11:15 M.O. Myreen. Writing proof automation for HOL4

11:15-12:45 . Everyone. Hack Session 1

Session 26J (IWC): Regular talks
10:45-11:45

Chair:

Location: FH, Seminarraum 303

10:45-11:15 J. Nagele and R. Thiemann. Certification of Confluence Proofs using CeTA

11:15-11:45 M. Oyamaguchi and N. Hirokawa. Confluence and Critical-Pair-Closing Systems

Session 26K (ORE): ORE Opening
10:45-11:00

Chair: Bijan Parsia

Location: FH, Seminarraum 101A

Session 26L (UNIF)
10:45-13:00

Chair:

Location: FH, Seminarraum 104

10:45-11:15 P. Hibbs, P. Narendran and S. Mehto. Unification Modulo Common List Functions

11:15-11:45 F. Baader and B. Morawska. Matching with respect to general concept inclusions in the Description Logic EL

11:45-12:15 P. Balbiani and T. Tinchev. Unification in the normal modal logic Alt1

12:15-12:35 S. Erbatur, D. Kapur, A.M. Marshall, C. Meadows, P. Narendran and C. Ringeissen. On Asymmetric Unification and the Combination Problem in Disjoint Theories (Extended Abstract)

12:35-12:55 S. Erbatur, D. Kapur, A.M. Marshall, P. Narendran and C. Ringeissen. Hierarchical Combination of Matching Algorithms (Extended Abstract)

Session 26M (POS): Analysis
10:45-13:00

Chair:

Location: FH, Hörsaal 3

10:45-11:15 L. Simon. Post Mortem Analysis of SAT Solver Proofs

11:15-11:45 Z. Mann and P. Papp. Formula partitioning revisited

11:45-12:15 N. Manthey and E. Alfonso. New CNF Features and Formula Classification

12:15-12:45 Z. Mann. Typical-case complexity and the SAT competitions

Session 26N (PC): Invited Talk (Albert Atserias)
10:45-11:45

Chair: Jan Johannsen

Location: FH, Seminarraum 101B

10:45-11:45 A. Atserias. Weak Pigeonhole Principles, Circuits for Approximate Counting, and Bounded-Depth Proofs

Session 26P (IFIP-WG16): Theorem Proving and MOOCs
10:45-13:00

Chair:

Location: FH, Seminarraum 101C

10:45-11:30 G. Dowek and Y. Jiang. Rewriting, Proofs and Transition Systems

11:30-12:00 M.P. Bonacina and D. Plaisted. Semantically-Guided Goal-Sensitive Theorem Proving

12:00-12:30 C. Kirchner. Impacts of the Digital Revolution on two Main Activities of Scientists: Teaching and Publishing

Program on Sunday, July 13th

12:30-13:00 C. Kirchner. Discussion on Massive Open Online Courses and Overlay Journals

Session 26Q (LSB)

10:45-13:00

Chair:

Location: FH, Seminarraum 134A

10:45-11:30 A. Siegel. Using answer set programming to integrate large-scale heterogeneous information about the response of a biological system

11:30-12:15 C. Lhoussaine. Attractor equivalence: An observational semantics for reaction networks

12:15-12:55 E. de Maria, J. Despeyroux and A. Felty. A Logical Framework for Systems Biology

Session 26R (ACL2): Verification

10:45-13:00

Chair:

Location: FH, Hörsaal 7

10:45-11:15 D. Russinoff and J. O'Leary. Modeling Algorithms in SystemC and ACL2

11:15-11:45 D. Hardin, J. Davis, D. Greve and J. McClurg. Development of a Translator from LLVM to ACL2

11:45-12:15 B. Selfridge. An ACL2 Mechanization of an Axiomatic Framework for Weak Memory

12:15-12:45 D. Puri, S. Ray, K. Hao and F. Xie. Using ACL2 to Verify Loop Pipelining in Behavioral Synthesis

Session 26S (DTP): Contributed Talks

10:45-13:00

Chair:

Location: FH, Seminarraum 325/1

10:45-11:15 B. Ahrens and R. Spadotti. Terminal semantics for codata types in intensional Martin-Löf type theory

11:15-11:45 R. Dapoigny and P. Barlatier. A Unifying Framework for Primitive Ontological Relations in Dependent Type Theory

11:45-12:15 C. Ionescu and P. Jansson. Domain Specific Languages of Mathematics

12:15-12:45 H.-S. Ko and J. Gibbons. Relational ornaments

Session 26T (DCM)

10:45-11:45

Chair:

Location: FH, Seminarraum 138B

10:45-11:15 W. Kahl. A Simple Parallel Implementation of Interaction Nets in Haskell

11:15-11:45 I. Mackie and S. Sato. Some observations for the parallel implementation of interaction nets

Session 26U (LOLA): Contributed talks

10:45-12:45

Chair:

Location: FH, Seminarraum 107

10:45-11:15 H. Godfroy and J.-Y. Marion. Abstract Self Modifying Machines

11:15-11:45 S. Goncharov, L. Schröder and C. Rauch. Programming and Verifying with Effect Handling and Iteration

11:45-12:15 P.-A. Melliès. Tensorial logic with algebraic effects

12:15-12:45 K. Muroya, T. Kataoka, I. Hasuo and N. Hoshino. Compiling Effectful Terms to Transducers: Prototype Implementation of Memoryful Geometry of Interaction

Session 27 (CLC)

10:50-13:00

Chair:

Location: FH, Dissertantenraum E104

10:50-11:10 K. Kikuchi and T. Sakurai. A Translation of Intersection and Union Types for the lambda-mu Calculus

11:10-11:30 H. Eades Iii, A. Stump and R. McCleary. Dualized Type Theory

11:30-12:00 E. Beffara. A proof-theoretic view on scheduling in concurrency

12:00-12:30 H. Geuvers, W. Geraedts, B. Geron and J. van Stegeren. A type system for Continuation Calculus

Program on Sunday, July 13th

12:30-13:00 J. Espírito Santo, R. Matthes, K. Nakazawa and L. Pinto. Confluence for classical logic through the distinction between values and computations

Session 28A (ORE): Evaluation and Benchmarks
11:00-13:00

Chair: Dmitry Tsarkov

Location: FH, Seminarraum 101A

11:00-11:20 J.-R. Bourguet and L. Pulina. TROvE: a Graphical Tool to Evaluate OWL Reasoners

11:20-11:40 T. Eiter, P. Schneider, M. Simkus and G. Xiao. Using OpenStreetMap Data to Create Benchmarks for Description Logic Reasoners

11:40-12:00 D. Calvanese, D. Lanti, M. Rezk, M. Slusnys and G. Xiao. A Scalable Benchmark for OBDA Systems: Preliminary Report

12:00-12:20 A. Kropotin. Evaluating OWL 2 Reasoners in the Context Of Checking Entity-Relationship Diagrams During Software Development

12:20-12:40 M. Ludwig. Just: a Tool for Computing Justifications w.r.t. ELH Ontologies

12:40-13:00 C. Bobed, F. Bobillo, R. Yus, G. Esteban and E. Mena. Android Went Semantic: Time for Evaluation

Session 28B (FWFM): Technical session
11:00-13:00

Chair:

Location: FH, Seminarraum 134

11:00-11:30 H. Logas, F. Kirchner, J. Murray, M. Schäf and J. Whitehead. Chekofv: Crowd-sourced Formal Verification

11:30-12:00 N. Shilov. Using Esoteric Language for Teaching Formal Semantics

12:00-12:30 D. Lawrence, D. Racordon, M. Colange, S. Hostettler, A. Linard, E. López Bóbeda, A. Marechal, M. Risoldi, N. Sedlmajer and D. Buchs. Introducing Formal Verification with Lego

12:30-13:00 T. Kotek. Explaining the decompositionality of MSO using applications to combinatorics

Session 29A (IWC): Regular talks
12:00-13:00

Chair:

Location: FH, Seminarraum 303

12:00-12:30 L. Hellström. Critical Pairs in Network Rewriting

12:30-13:00 N. Nishida, M. Yanagisawa and K. Gmeiner. On Proving Confluence of Conditional Term Rewriting Systems via the Computationally Equivalent Transformation

Session 29B (PC): Contributed Talks: Resolution
12:00-13:00

Chair: Jan Johannsen

Location: FH, Seminarraum 101B

12:00-12:30 I. Bonacina, N. Galesi and N. Thapen. Total Space in Resolution

12:30-13:00 Y. Filmus, M. Lauria, M. Miksa, J. Nordström and M. Vinyals. From Small Space to Small Width in Resolution

Session 29C (DCM)
12:00-13:00

Chair:

Location: FH, Seminarraum 138B

12:00-13:00 M. Pagani. Quantitative semantics for higher-order probabilistic and quantum computation

Session 30 (LCC): Invited Talks
14:00-16:00

Chair:

Location: FH, Zeichensaal 3

14:00-15:00 A. Dawar. On the power of fixed-point logic with counting

15:00-16:00 M. Sagiv. Reasoning about transitive closure in Immerman's style

Session 31A (Linearity)
14:30-16:00

Chair: Sandra Alves

Location: FH, Seminarraum 136

14:30-15:30 I. Mackie. Continuations, closed reduction and process networks

Program on Sunday, July 13th

15:30-16:00 E. Gan, J.A. Tov and G. Morrisett. Type Classes for Lightweight Substructural Types

Session 31B (WPTE): Conditional Rewriting, Polymorphic Calculi
14:30-16:00

Chair:

Location: FH, Hörsaal 4

14:30-15:00 N. Nishida, M. Yanagisawa and K. Gmeiner. On Proving Soundness of the Computationally Equivalent Transformation for Normal Conditional Term Rewriting Systems by Using Unravelings

15:00-15:30 M. Schmidt-Schauss and D. Sabel. Contextual Equivalences in Call-by-Need and Call-By-Name Polymorphically Typed Calculi (Preliminary Report)

15:30-16:00 Y. Chiba. Verifying the Correctness of Tupling Transformations based on Conditional Rewriting

Session 31C (Isabelle): Isabelle workshop
14:30-16:00

Chair: Tobias Nipkow

Location: FH, Seminarraum 138C

14:30-15:00 L. Paulson. Proving Gödel's Incompleteness Theorems

15:00-15:30 M. Wenzel. Isabelle/jEdit NEWS

15:30-16:00 A. Lochbihler and M. Züst. Programming TLS in Isabelle/HOL

Session 31D (IWC, TermGraph): Joint IWC / TermGraph Invited Talk
14:30-15:30

Chair: Delia Kesner

Location: FH, Seminarraum 325/2

14:30-15:30 S. Mimram. An Introduction to Higher-Dimensional Rewriting Theory

Session 31E (GSB): Invited Talk and Contributed Talks
14:30-16:05

Chair: George Metcalfe

Location: FH, Seminarraum 138A

14:30-15:15 A. Simpson. Cyclic proof for quantitative logics

15:15-15:40 S. Marin and L. Straßburger. Modular Systems for Intuitionistic Modal Logics in Nested Sequents

15:40-16:05 A. Rademaker and H. Haeusler. An Intuitionistically based Description Logic

Session 31F (QBF): QBF Applications (1): Incremental QBF Solving
14:30-16:00

Chair:

Location: FH, Hörsaal 2

14:30-15:00 P. Marin, C. Miller and B. Becker. Incremental QBF Reasoning for the Verification of Partial Designs

15:00-15:30 R. Koenighofer. Reactive Synthesis using (Incremental) QBF Solving

15:30-16:00 M. Kronegger, A. Pfandler, F. Lonsing and U. Egly. Conformant Planning as a Case Study of Incremental QBF Solving

Session 31G (HOL): HOL Workshop
14:30-16:00

Chair:

Location: FH, CAD 2

14:30-15:00 A. Fox. HOL4 Hidden Features

15:00-15:30 R. Kumar. New Styles of Proof

15:30-16:00 . Everyone. Hack Session 2

Session 31H (ORE): Ontologies
14:30-15:30

Chair: Floriano Scioscia

Location: FH, Seminarraum 101A

14:30-14:50 C.M. Keet, C. D'Amato, Z. Khan and A. Lawrynowicz. Exploring Reasoning with the DMOP Ontology

14:50-15:10 J.A. Minarro-Giménez and M. Samwald. An update on Genomic CDS, a complex ontology for pharmacogenomics and clinical decision support

Program on Sunday, July 13th

15:10-15:30 R. Stevens, N. Matentzoglou and U. Sattler. A Family History Knowledge Base in OWL 2

Session 31I (UNIF): Invited Talk 2 and Regular Talk

14:30-16:00

Chair:

Location: FH, Seminarraum 104

14:30-15:30 J. Levy. On the Limits of Second-Order Unification

15:30-16:00 L.M. Cabrer and G. Mectalfe. From Admissibility to a New Hierarchy of Unification Types

Session 31J (POS): Invited talk

14:30-15:30

Chair: Daniel Le Berre

Location: FH, Hörsaal 3

14:30-15:30 A. Biere. Lingeling Essentials, A Tutorial on Design and Implementation Aspects of the the SAT Solver Lingeling

Session 31K (PC): Invited Talk (Iddo Tzameret)

14:30-15:30

Chair: Jan Johannsen

Location: FH, Seminarraum 101B

14:30-15:30 I. Tzameret. Are matrix identities hard instances for strong proof systems?

Session 31L (IFIP-WG16): Normalization and Music

14:30-16:00

Chair:

Location: FH, Seminarraum 101C

14:30-15:15 N. Hirokawa, A. Middeldorp and G. Moser. Basic Normalization

15:15-16:00 F. Jacquemard, J. Bresson and P. Donat-Bouillud. Rhythm Tree Rewriting

Session 31M (LSB)

14:30-16:00

Chair:

Location: FH, Seminarraum 134A

14:30-15:15 A. Carbone. TBA

15:15-16:00 T. Henzinger. Model Checking the Evolution of Gene Regulatory Networks

Session 31N (ACL2): Keynote Magnus Myreen

14:30-16:00

Chair:

Location: FH, Hörsaal 7

14:30-15:30 M. Myreen. Machine-code verification: experience of tackling medium-sized case studies using 'decompilation into logic'

Session 31P (DTP): Contributed Talks

14:30-16:00

Chair:

Location: FH, Seminarraum 325/1

14:30-15:00 J.P. Pizani Flor and W. Swierstra. An Embedded Hardware Description Language using Dependent Types

15:00-15:30 E. Amsden, R. Newton and J. Siek. Type-Directed Editing for Dependently-Typed Programs.

15:30-16:00 H. Mehnert and D.R. Christiansen. Tool Demonstration: An IDE for Programming and Proving in Idris

Session 31Q (FWFM): Technical session

14:30-15:30

Chair:

Location: FH, Seminarraum 134

14:30-15:00 S.M. Beillahi, U. Siddique and S. Tahar. Towards the Application of Formal Methods in Process Engineering

Program on Sunday, July 13th

15:00-15:30 P.K. Shah. An Example Demonstrating the Requirement of Fully Formal Verification Method

Session 31R (DCM)

14:30-16:00

Chair:

Location: FH, Seminarraum 138B

14:30-15:00 N. Dershowitz and E. Falkovich. Cellular Automata are Generic

15:00-15:30 S. Facchini and S. Perdrix. Quantum Circuits for the Unitary Permutation Problem

15:30-16:00 E. Hermann Haeusler. Propositional Logics Complexity and the sub-formula Property

Session 31S (CLC)

14:30-16:00

Chair:

Location: FH, Dissertantenraum E104

14:30-15:00 M. Basaldella. Infinitary Classical Logic: Recursive Equations and Interactive Semantics

15:00-15:20 D. Hughes. Separable Sequent Calculus for First-order Classical Logic (Work in Progress)

15:20-15:40 D. Cerna and A. Leitsch. Cut-Elimination in Schematic Proofs and Herbrand Sequents

15:40-16:00 M. Perrinel. Stratified Nested Linear Logic

Session 32 (LOLA): Invited talk

15:00-16:00

Chair:

Location: FH, Seminarraum 107

15:00-16:00 R. Kolanski. On Machines, Virtual Memory and Successful System Verification

Session 33A (ORE): ORE Competition Session

15:30-16:00

Chair: Bijan Parsia

Location: FH, Seminarraum 101A

Session 33B (IWC): Regular talk

15:30-16:00

Chair:

Location: FH, Seminarraum 303

15:30-16:00 Y. Guiraud, E. Hoffbeck and P. Malbos. Confluence of linear rewriting and homology of algebras

Session 33C (POS): Formalization

15:30-16:00

Chair:

Location: FH, Hörsaal 3

15:30-16:00 N. Manthey, P. Steinke, S. Hölldobler and T. Philipp. Generic CDCL -- A Formalization of Modern Propositional Satisfiability Solvers

Session 33D (FWFM): Panel Discussion

15:30-16:00

Chair:

Location: FH, Seminarraum 134

Program on Sunday, July 13th

Session 33E (PC): Contributed Talk: Complexity of SAT algorithms
15:30-16:00

Chair: Jan Johannsen

Location: FH, Seminarraum 101B

15:30-16:00 D. Itsykson and D. Sokolov. Lower bounds for splittings by linear combinations

Session 33F (TermGraph): Proof Nets
15:30-16:00

Chair: Beniamino Accattoli

Location: FH, Seminarraum 325/2

15:30-16:00 G. Guerrieri, L. Pellissier and L. Tortora De Falco. Injectivity of Relational Semantics for (Connected) MELL Proof-Nets via Taylor Expansion

Session 34A (LCC): Invited Talk and Closing
16:30-17:45

Chair:

Location: FH, Zeichensaal 3

16:30-17:30 B. Rossman. The Variable Hierarchy on Ordered Graphs

17:30-17:45 N. Immerman. Closing Remarks

Session 34B (Linearity)
16:30-18:30

Chair: Simona Ronchi Della Rocca

Location: FH, Seminarraum 136

16:30-17:00 M. Basaldella. Ludics without Designs I: Triads

17:00-17:30 U. Dal Lago and M. Zorzi. Wave-Style Token Machines and Quantum Lambda Calculi

17:30-18:00 M. Solieri. Geometry of Resource Interaction – A Minimalist Approach

18:00-18:30 G. Guerrieri and L. Tortora De Falco. A new point of view on the Taylor expansion of proof-nets and uniformity

Session 34C (WPTE): Conditional Term Rewriting, Complexity and WPTE Closing
16:30-18:00

Chair:

Location: FH, Hörsaal 4

16:30-17:00 K. Gmeiner and N. Nishida. Notes on Structure-Preserving Transformations of Conditional Term Rewrite Systems

17:00-17:30 G. Moser and M. Schaper. A Complexity Preserving Transformation from Jinja Bytecode to Rewrite Systems

17:30-17:45 M. Schmidt-Schauß. Closing

Session 34D (Isabelle): Isabelle workshop
16:30-18:00

Chair: Andreas Lochbihler

Location: FH, Seminarraum 138C

16:30-17:00 H. Blasum, O. Havle, B. Langenstein, Y. Nemouchi, J. Schmaltz, W. Stephan, S. Tverdyshev, F.

Verbeek and B. Wolff. Using Isabelle/HOL to Develop and Maintain Separation Invariants for an Operating System (Extended Abstract)

17:00-17:20 C. Rizkallah. A Simpl Shortest Path Checker Verification

17:20-17:40 L. Noschinski. Towards Structured Proofs for Program Verification (Ongoing Work)

17:40-18:00 T. Nipkow. Amortized Complexity Verified

Session 34E (TermGraph): Implementations
16:30-17:30

Chair: Wolfram Kahl

Location: FH, Seminarraum 325/2

16:30-17:00 I. Mackie and S. Sato. An Implementation Model for Interaction Nets

Program on Sunday, July 13th

17:00-17:30 S. Yamasaki. Fixed Point Theory for Consistent Rewriting in Logic of Action with Reverse

Session 34F (GSB): Contributed Talks

16:30-18:10

Chair: Alex Simpson

Location: FH, Seminarraum 138A

16:30-16:55 T. Kowalski. Link formulas in implication fragments of substructural logics

16:55-17:20 P. Baldi. A proof theoretic approach to standard completeness

17:20-17:45 R. Arthan and P. Oliva. On Affine Logic and Łukasiewicz Logic

17:45-18:10 D. Hughes. Simpler Proof Net Quantifiers: Unification Nets (Work in Progress)

Session 34G (QBF): QBF Applications (2), The QBF Gallery 2014

16:30-18:00

Chair:

Location: FH, Hörsaal 2

16:30-17:00 A. Gascón. Synthesis of distributed systems using QBF

17:00-18:00 M. Seidl and C. Jordan. The QBF Gallery 2014

Session 34H (HOL)

16:30-18:30

Chair:

Location: FH, CAD 2

16:30-17:00 . Everyone. Discussion Session

17:00-18:30 . Everyone. Hack Session 3

Session 34I (IWC): Regular talks, confluence competition (CoCo) and closing

16:30-18:15

Chair:

Location: FH, Seminarraum 303

16:30-17:00 N. Hirokawa, A. Middeldorp and C. Sternagel. Normalization Equivalence of Rewrite Systems

17:00-17:30 M. Sakai, M. Oyamaguchi and M. Ogawa. Non-E-overlapping and weakly shallow TRSs are confluent (Extended abstract)

17:30-18:15 T. Aoto, N. Hirokawa and H. Zankl. Confluence Competition

Session 34J (ORE): Reasoners

16:30-17:10

Chair: Fernando Bobillo

Location: FH, Seminarraum 101A

16:30-16:50 M. Ruta, F. Scioscia, G. Loseto, F. Gramegna, S. Ieva and E. Di Sciascio. Mini-ME 2.0: powering the Semantic Web of Things

16:50-17:10 D. Tsarkov. Incremental and Persistent Reasoning in FaCT++

Session 34K (UNIF)

16:30-18:00

Chair:

Location: FH, Seminarraum 104

16:30-17:00 M.P. Bonacina and D. Plaisted. Constraint Manipulation in SGGS

17:00-17:30 T. Novikova and V. Zakharov. Two-sided unification is NP-complete

17:30-18:00 A. Baumgartner, T. Kutsia, J. Levy and M. Villaret. Nominal Anti-Unification

Session 34L (POS): Applications and closing

16:30-18:00

Chair:

Location: FH, Hörsaal 3

16:30-17:00 A. Fröhlich, G. Kovásznai, A. Biere and H. Veith. iDQ: Instantiation-Based DQBF Solving

17:00-17:30 M. Stojadinovic and F. Maric. Instance-based Selection of CSP Solvers using Short Training

Program on Sunday, July 13th

17:30-18:00 T. Soh, D. Le Berre, S. Roussel, M. Banbara and N. Tamura. Incremental SAT-based Method with Native Boolean Cardinality Handling for the Hamiltonian Cycle Problem

Session 34M (PC): Contributed Talks: Proof Complexity
16:30-17:30

Chair: Jan Johannsen

Location: FH, Seminarraum 101B

16:30-17:00 A. Atserias, M. Lauria and J. Nordström. Narrow Proofs May Be Maximally Long

17:00-17:30 N. Thapen, A. Beckmann and P. Pudlák. Parity games and propositional proofs

Session 34N (IFIP-WG16): Discussion on RTA, Open Problems, and Business Meeting
16:30-18:00

Chair:

Location: FH, Seminarraum 101C

16:30-17:00 G. Moser. Discussion on the Future of RTA (+ TLCA)

17:00-17:30 N. Dershowitz and H. Zantema. Discussion on the Open Problems List in Rewriting

17:30-18:00 J. Giesl. Business Meeting

Session 34P (LSB)
16:30-17:30

Chair:

Location: FH, Seminarraum 134A

16:30-17:30 A. Uhrmacher. The role of domain specific languages in simulation studies - Analyzing the impact of membrane dynamics on the Wnt signaling pathway

Session 34Q (ACL2): Panel Discussion about low-level code verification
16:30-18:00

Chair:

Location: FH, Hörsaal 7

Session 34R (DTP): Contributed Talks
16:30-18:00

Chair:

Location: FH, Seminarraum 325/1

16:30-17:00 A.S. Al-Sibahi. Scrapping Your Dependently-Typed Boilerplate is Hard

17:00-17:30 A. Tasistro. On a style of presentation of type systems

17:30-18:00 N. Botta, C. Ionescu, P. Jansson and E. Brady. Sequential decision problems, dependent types and generic solutions

Session 34S (DCM)
16:30-18:00

Chair:

Location: FH, Seminarraum 138B

16:30-17:00 A. Di Pierro and M. Zorzi. Probabilistic Types and Function Overloading

17:00-17:30 M. Gaboardi and J. Hsu. Differential privacy at work: Verification of approximate probabilistic programs and models for choosing epsilon

17:30-18:00 G. Istrate, C. Bonchis and M. Marin. Interactive Particle Systems and Random Walks on Hypergraphs

Session 34T (LOLA): Contributed talks
16:30-17:30

Chair:

Location: FH, Seminarraum 107

16:30-17:00 W. Mansky and E. Gunter. A Cross-Language Framework for Verifying Compiler Optimizations

Program on Sunday, July 13th

17:00-17:30 U. Schöpp. Call-by-Value in a Basic Logic for Interaction

Session 34U (CLC)

16:30-18:00

Chair:

Location: FH, Dissertantenraum E104

16:30-17:00 B. Manna and T. Coquand. A sheaf model of the algebraic closure

17:00-17:20 F. Aschieri and M. Zorzi. A "Game Semantical" Intuitionistic Realizability Validating Markov's Principle

17:20-17:40 A. Pauly and M. Ziegler. Relative Computability and Uniform Continuity of Non-Extensional (aka Multivalued) 'Functions'

17:40-18:00 T. Litak. Negative Translations and Heyting Algebra Expansions

Session 35 (ORE): ORE closing

17:10-17:15

Chair: Bijan Parsia

Location: FH, Seminarraum 101A

Session 36 (UNIF)

18:00-19:00

Chair:

Location: FH, Seminarraum 104

18:00-18:30 A. Vezzosi and A. Abel. A Categorical Perspective on Pattern Unification (Extended Abstract)

18:30-19:00 B. Ziliani and M. Sozeau. Towards a better-behaved unification algorithm for Coq

Session 37 (LCC): Workshop dinner in honor of Immerman

18:15-21:00

Chair:

Program on Monday, July 14th

Program on Monday, July 14th

Conferences:

CSL-LICS: Joint Meeting of the 23rd EACSL Annual Conference on Computer Science Logic and the 29th ACM/IEEE Symposium on Logic in Computer Science

ITP: 5th International Conference on Interactive Theorem Proving

RTA-TLCA: Joint 25th International Conference on Rewriting Techniques and Applications and 12th Typed Lambda Calculi and Applications

SAT: 17th International Conference on Theory and Applications of Satisfiability Testing

LC: Logic Colloquium 2014

Program on Monday, July 14th

CSL-LICS	CSL-LICS	ITP	RTA-TLCA	SAT	LC
08:45-09:15 Session 37:VSL Opening					
09:15-10:15 Session 38:VSL Keynote Talk					
10:15-10:45 Coffee Break					
10:45-13:00 CSL-LICS Session 38A Tutorial by Assia Mahboubi	10:45-13:00 CSL-LICS Session 38B Computability	10:45-13:00 ITP Session 38C Verified Theorem Provers	10:45-13:00 RTA-TLCA Session 38D	10:45-12:05 SAT Session 38E Maximum Satisfiability	11:00-13:00 LC Session 39 Tutorial and invited talk
				12:10-13:00 SAT Session 40 Minimal Unsatisfiability	
13:00-14:30 Lunch Break					
14:30-16:00 CSL-LICS Session 41A Tutorial by Jasmin Fisher	14:30-16:00 CSL-LICS Session 41H Special session: Perspectives on Induction	14:30-16:00 ITP Session 41B Invited Talk	14:30-16:00 RTA-TLCA Session 41C	14:30-15:50 SAT Session 41D Complexity and Reductions	14:30-16:00 LC Session 41E Special session: Logic of Games and Rational Choice
16:00-16:30 Coffee Break					
16:30-18:30 CSL-LICS Session 42A Computability	16:30-18:30 CSL-LICS Session 42B Concurrency	16:30-18:00 ITP Session 42C Codatatypes	16:30-18:15 RTA-TLCA Session 42D	16:30-18:00 SAT Session 42E Tool Papers	16:30-18:30 LC Session 42F Contributed talks A1
		18:00-18:30 ITP Session 43			
20:00-21:30 Session 44:VSL Opening Reception					

Program on Monday, July 14th

LC	LC	LC	LC	LC	LC
08:45-09:15 Session 37:VSL Opening					
09:15-10:15 Session 38:VSL Keynote Talk					
10:15-10:45 Coffee Break					
13:00-14:30 Lunch Break					
14:30-16:00 LC Session 41F Special session: Model Theory	14:30-16:00 LC Session 41G Special session: Recursion Theory	14:30-16:00 LC Session 41H Special session: Perspectives on Induction			
16:00-16:30 Coffee Break					
16:30-18:30 LC Session 42G Contributed talks B1	16:30-18:30 LC Session 42H Contributed talks C1	16:30-18:30 LC Session 42I Contributed talks D1	16:30-18:30 LC Session 42J Contributed talks E1	16:30-18:30 LC Session 42K Contributed talks F1	16:30-18:30 LC Session 42L Contributed talks G1
20:00-21:30 Session 44:VSL Opening Reception					

Program on Monday, July 14th

LC	LC	LC
08:45-09:15 Session 37:VSL Opening		
09:15-10:15 Session 38:VSL Keynote Talk		
10:15-10:45 Coffee Break		
13:00-14:30 Lunch Break		
16:00-16:30 Coffee Break		
16:30-18:30 LC Session 42M Contributed talks H1	16:30-18:30 LC Session 42N Contributed talks I1	16:30-18:30 LC Session 42P Contributed talks J1
20:00-21:30 Session 44:VSL Opening Reception		

Program on Monday, July 14th

Session 37 (VSL): VSL Opening
08:45-09:15

Chair: Agata Ciabattoni

Location: EI, EI 7 + EI 9, EI 10 + FH, Hörsaal 1

08:45-08:50 S. Seidler. Welcome Address by the Rector

08:50-08:55 M. Baaz, T. Eiter and H. Veith. Welcome Address by the Organizers

08:55-09:15 D. Scott. VSL Opening

Session 38 (VSL): VSL Keynote Talk
09:15-10:15

Chair: Georg Gottlob

Location: EI, EI 7 + EI 9, EI 10 + FH, Hörsaal 1

09:15-10:15 C. Papadimitriou. VSL Keynote Talk: Computational Ideas and the Theory of Evolution

Session 38A (CSL-LICS): Tutorial by Assia Mahboubi
10:45-13:00

Chair: Dale Miller

Location: FH, Hörsaal 1

10:45-12:45 A. Mahboubi. Computer-checked mathematics: a formal proof of the Odd Order theorem

Session 38B (CSL-LICS): Computability
10:45-13:00

Chair: Leszek Pacholski

Location: FH, Hörsaal 5

10:45-11:15 B. Khoussainov. A quest for algorithmically random infinite structures

11:15-11:45 T. Chen and S. Kiefer. On the Total Variation Distance of Labelled Markov Chains

11:45-12:15 P. Bilokon and A. Edalat. A domain-theoretic approach to Brownian motion and general continuous stochastic processes

12:15-12:45 M. Mamino. On the Computing Power of $+$, $-$, and \times

Session 38C (ITP): Verified Theorem Provers
10:45-13:00

Chair:

Location: FH, Hörsaal 8

10:45-11:15 A. Anand and V. Rahli. Towards a Formally Verified Proof Assistant

11:15-11:45 M.O. Myreen and J. Davis. The reflective Milawa theorem prover is sound (down to the machine code that runs it)

11:45-12:15 R. Kumar, R. Arthan, M.O. Myreen and S. Owens. HOL with Definitions: Semantics, Soundness, and a Verified Implementation

12:15-12:45 J.S. Moore. Proof Pearl: Proving a Simple Von Neumann Machine Turing Complete

12:45-13:00 M. Kaufmann and J. Moore. Rough Diamond: An Extension of Equivalence-based Rewriting

Session 38D (RTA-TLCA)
10:45-13:00

Chair:

Location: Informatikhörsaal

10:45-11:15 S. Schmitz. Implicational Relevance Logic is 2-ExpTime-Complete

11:15-11:45 D. de Carvalho and J.G. Simonsen. An Implicit Characterization of the Polynomial-Time Decidable Sets by Cons-Free Rewriting

11:45-12:15 M. Bagnol and C. Aubert. Unification and Logarithmic Space

12:15-12:45 N. Hirokawa and G. Moser. Automated Complexity Analysis Based on Context-Sensitive Rewriting

12:45-13:00 C. Creus and G. Godoy. Automatic Evaluation of Context-Free Grammars (System Description)

Session 38E (SAT): Maximum Satisfiability
10:45-12:05

Chair:

Location: FH, Hörsaal 6

10:45-11:15 T. Sakai, K. Seto and S. Tamaki. Solving Sparse Instances of Max SAT via Width Reduction and Greedy Restriction

11:15-11:45 J.A. Telle, S.H. Sæther and M. Vatshelle. Solving MaxSAT and #SAT on structured CNF formulas

Program on Monday, July 14th

11:45-12:05 F. Bacchus and N. Narodytska. Cores in Core based MaxSat Algorithms: an Analysis

Session 39 (LC): Tutorial and invited talk

11:00-13:00

Chair:

Location: MB, Prechtlsaal

11:00-12:00 K. Apt. Tutorial on Strategic and Extensive Games 1

12:00-13:00 N. Greenberg. Applications of admissible computability

Session 40 (SAT): Minimal Unsatisfiability

12:10-13:00

Chair:

Location: FH, Hörsaal 6

12:10-12:40 A. Previti and J. Marques-Silva. On Computing Preferred MUSes and MCSes

12:40-13:00 A. Belov, M. Heule and J. Marques-Silva. MUS Extraction using Clausal Proofs

Session 41A (CSL-LICS): Tutorial by Jasmin Fisher

14:30-16:00

Chair: Tom Henzinger

Location: FH, Hörsaal 1

14:30-16:00 J. Fisher. Understanding Biology through Logic

Session 41B (ITP): Invited Talk

14:30-16:00

Chair:

Location: FH, Hörsaal 8

14:30-15:00 D. Cock. From Operational Models to Information Theory - Side-Channels in pGCL with Isabelle

15:00-16:00 A. Slobodova, J. Davis and S. Swords. Invited talk: Microcode Verification - Another Piece of the Microprocessor Verification Puzzle

Session 41C (RTA-TLCA)

14:30-16:00

Chair:

Location: Informatikhörsaal

14:30-15:30 N. Yoshida. Process types as a descriptive tool for distributed protocols

15:30-16:00 M. Schmidt-Schauss and D. Sabel. Applicative May- and Should-Simulation in the Call-by-Value Lambda Calculus with AMB

Session 41D (SAT): Complexity and Reductions

14:30-15:50

Chair:

Location: FH, Hörsaal 6

14:30-15:00 R. de Haan and S. Szeider. Fixed-parameter tractable reductions to SAT

15:00-15:30 A. Ignatiev, A. Morgado and J. Marques-Silva. On Reducing Maximum Independent Set to Minimum Satisfiability

15:30-15:50 M. Järvisalo and J.H. Korhonen. Conditional Lower Bounds for Failed Literals and Related Techniques

Session 41E (LC): Special session: Logic of Games and Rational Choice

14:30-16:00

Chair:

Location: MB, Hörsaal 15

14:30-15:15 J. Van Benthem. The DNA of logic and games.

15:15-16:00 J. Väänänen. Dependence and independence - a logical approach

Session 41F (LC): Special session: Model Theory

14:30-16:00

Chair:

Location: MB, Aufbaulabor

14:30-15:15 P. Eleftheriou. Pregeometries and definable groups

Program on Monday, July 14th

15:15-16:00 M. Kesala. Quasiminimal structures and excellence

Session 41G (LC): Special session: Recursion Theory

14:30-16:00

Chair:

Location: MB, Seminarraum 212/232

14:30-15:15 I. Kalimullin. Uniform and non-uniform reducibilities of algebraic structures

15:15-16:00 R. Hölzl. Randomness in the Weihrauch degrees

Session 41H (CSL-LICS, LC): Special session: Perspectives on Induction

14:30-16:00

Chair:

Location: MB, Prechtlsaal

14:30-15:15 M. Detlefsen. Inductive Proofs & the Knowledge They Represent

15:15-16:00 G. Gottlob. Decidable languages for knowledge representation and inductive definitions: From Datalog to Datalog+/-

Session 42A (CSL-LICS): Computability

16:30-18:30

Chair: Erich Graedel

Location: FH, Hörsaal 1

16:30-17:00 B. Klin, S. Lasota, J. Ochremiak and S. Toruńczyk. Turing Machines with Atoms, Constraint Satisfaction Problems, and Descriptive Complexity

17:00-17:30 B. Accattoli and U. Dal Lago. Beta Reduction is Invariant, Indeed

17:30-18:00 A. Das. On the Pigeonhole and Related Principles in Deep Inference and Monotone Systems

18:00-18:30 R. Williams. Faster decision of first-order graph properties

Session 42B (CSL-LICS): Concurrency

16:30-18:30

Chair: Dale Miller

Location: FH, Hörsaal 5

16:30-17:00 B. Bollig. Logic for Communicating Automata with Parameterized Topology

17:00-17:30 J. Gutierrez and M. Wooldridge. Equilibria of Concurrent Games on Event Structures

17:30-18:00 H. Liang, X. Feng and Z. Shao. Compositional Verification of Termination-Preserving Refinement of Concurrent Programs

18:00-18:30 S. Castellan, P. Clairambault and G. Winskel. Symmetry in Concurrent Games

Session 42C (ITP): Codatatypes

16:30-18:00

Chair:

Location: FH, Hörsaal 8

16:30-17:00 J.C. Blanchette, J. Hölzl, A. Lochbihler, L. Panny, A. Popescu and D. Traytel. Truly Modular (Co)datatypes for Isabelle/HOL

17:00-17:30 A. Lochbihler and J. Hölzl. Recursive Functions on Codatatypes via Domains and Topologies

17:30-18:00 J. Gross, A. Chlipala and D. Spivak. Experience Implementing a Performant Category-Theory Library in Coq

Session 42D (RTA-TLCA)

16:30-18:15

Chair:

Location: Informatikhörsaal

16:30-17:00 Ł. Czajka. A Coinductive Confluence Proof for Infinitary Lambda-Calculus.

17:00-17:30 J. Liu, N. Dershowitz and J.-P. Jouannaud. Confluence by Critical Pair Analysis

17:30-18:00 T. Aoto, Y. Toyama and K. Uchida. Proving Confluence of Term Rewriting Systems via Persistency and Decreasing Diagrams

Program on Monday, July 14th

18:00-18:15 T. Sternagel and A. Middeldorp. Conditional Confluence (System Description)

Session 42E (SAT): Tool Papers

16:30-18:00

Chair:

Location: FH, Hörsaal 6

16:30-16:50 C. Jordan, L. Kaiser, F. Lonsing and M. Seidl. MPIDepQBF: Towards Parallel QBF Solving without Knowledge Sharing

16:50-17:10 N. Wetzler, M. Heule and W. Hunt. DRAT-trim: Efficient Checking and Trimming Using Expressive Clausal Proofs

17:10-17:30 C. Creus, P. Fernández and G. Godoy. Automatic Evaluation of Reductions between NP-complete Problems

17:30-17:50 R. Martins, V. Manquinho and I. Lynce. Open-WBO: a Modular MaxSAT Solver

Session 42F (LC): Contributed talks A1

16:30-18:30

Chair:

Location: MB, Hörsaal 14

16:30-16:50 M. Petrolo and G. Guerrieri. Natural deduction for intuitionistic differential linear logic

16:50-17:10 S. Artemov and T. Protopopescu. An outline of intuitionistic epistemic logic

17:10-17:30 N.-Y. Suzuki. Some properties related to the existence property in intermediate predicate logics

17:30-17:50 Z. Kostrzycka. On Hallden complete modal logics determined by homogeneous frames

17:50-18:10 A. Karimi and S. Salehi. A universal diagonal schema by fixed-points and Yablo's paradox

18:10-18:30 W. Morton and C. van Alten. Canonical extensions and prime filter completions of poset expansions.

Session 42G (LC): Contributed talks B1

16:30-18:30

Chair:

Location: MB, Hörsaal 15

16:30-16:50 H. Bolibekyan. On the compactness theorem in many valued logics

16:50-17:10 T. Benda. Formalizing vagueness as a doxastic, relational concept

17:10-17:30 O. Grigoriev. Two Formalisms for a Logic of Generalized Truth Values

17:30-17:50 J. Goudsmit. Characterising Logics through their Admissible Rules

17:50-18:10 M. Boricic. Models for the probabilistic sequent calculus

18:10-18:30 S. Frittella. Display-type calculi for non classical logics

Session 42H (LC): Contributed talks C1

16:30-18:30

Chair:

Location: MB, Zeichensaal 15

16:30-16:50 A. Achilleos. Complexity bounds for Multiagent Justification Logic

16:50-17:10 A. Mnatsakanyan. The relation between the graphs structures and proof complexity of corresponding Tseitin graph tautologies

17:10-17:30 D. Ponomaryov. The algorithmic complexity of decomposability in fragments of first-order logic

17:30-17:50 P. Pistone. Type equations and second order logic

17:50-18:10 V. de Paiva and L.C. Pereira. An intuitive semantics for {Full Intuitionistic Linear Logic}

18:10-18:30 A. Kakas, F. Toni and P. Mancarella. Argumentation Logic

Session 42I (LC): Contributed talks D1

16:30-18:30

Chair:

Location: MB, Seminarraum 5

16:30-16:50 A. Morozov, A. Satekbaeva and J. Tussupov. On the existential interpretability of structures

16:50-17:10 N. Kogabaev. The isomorphism problem for computable projective planes

17:10-17:30 R. Miller, J. Park, B. Poonen, H. Schoutens and A. Shlapentokh. Coding graphs into fields

17:30-17:50 S. Aleksandrova. Uniformization in the hereditarily finite list superstructure over the real exponential field

17:50-18:10 A. Stukachev. Dynamic logic on approximation spaces

Program on Monday, July 14th

18:10-18:30 D. Zainetdinov and I. Kalimullin. On limitwise monotonic reducibility of Σ^0_2 -sets.

Session 42J (LC): Contributed talks E1

16:30-18:30

Chair:

Location: MB, Seminarraum 2

16:30-16:50 S. Badaev and S. Goncharov. Relativized universal numberings

16:50-17:10 A. Issakhov. Ideals without minimal numberings in the Rogers semilattice

17:10-17:30 M. Dorzhieva. Computable numberings in Analytical Hierarchy

17:30-17:50 A. Sariev. Definability of $0'$ in the structure of ω -enumeration degrees

17:50-18:10 S. Vatev. Embedding the omega-enumeration degrees into the Muchnik degrees generated by spectra of structures

18:10-18:30 M. Faizrahmanov and I. Kalimullin. Limitwise monotonic sets of reals

Session 42K (LC): Contributed talks F1

16:30-18:30

Chair:

Location: MB, Seminarraum 212/232

16:30-16:50 B. Boricic and M. Ilic. An Intuitionistic Interpretation of Classical Implication

16:50-17:10 H. Farahani and H. Ono. Predicate Glivenko theorems and substructural aspects of negative translations

17:10-17:30 L. Rossi. Adding a Conditional to Kripke's Theory of Truth

17:30-17:50 H. Forssell. Constructive completeness and Joyal's theorem

17:50-18:10 W. Conradie and A. Craig. Algorithmic-algebraic canonicity for μ -calculi

18:10-18:30 R. Akiyoshi. Proof-Theoretic Analysis of Brouwer's Argument of the Bar Induction

Session 42L (LC): Contributed talks G1

16:30-18:30

Chair:

Location: MB, Seminarraum 3

16:30-16:50 E. Nogina. On Explicit-Implicit Reflection Principles.

16:50-17:10 F. Pakhomov. Ordinal Notations and Fundamental Sequences in Caucal Hierarchy

17:10-17:30 J. Van der Meeren. The maximal order type of the trees with the gap-embeddability relation

17:30-17:50 B. Eastaugh. Computational reverse mathematics and foundational analysis

17:50-18:10 C. Espindola. Semantic completeness of first order theories in constructive reverse mathematics

18:10-18:30 S. Sanders. Reverse Mathematics, more explicitly

Session 42M (LC): Contributed talks H1

16:30-18:30

Chair:

Location: MB, Seminarraum 4

16:30-16:50 L.B. Westrick. A computability approach to three hierarchies

16:50-17:10 V. Kanovei. A generalization of Solovay's Sigma-construction with application to intermediate models

17:10-17:30 A. Block. A new lower bound for the length of the hierarchy of norms

17:30-17:50 S. Hachtman. Unraveling $\Sigma^0_\alpha(\Pi^1_1)$ -Determinacy

17:50-18:10 C. Le Sueur. Determinacy of Refinements to the Difference Hierarchy of Co-analytic sets

18:10-18:30 A. Chubaryan, A. Mnatsakanyan and H. Nalbandyan. On proof complexities of strong equal modal tautologies.

Session 42N (LC): Contributed talks I1

16:30-18:30

Chair:

Location: MB, Seminarraum 6

16:30-16:50 O. Mermelstein. Reducts of simple (non-collapsed) Fraisse-Hrushovski constructions

16:50-17:10 A. Yeshkeyev. On Jonsson sets and some their properties.

17:10-17:30 G. Bedrosian and F. Herzberg. Ultraproduct construction of representative utility functions with infinite-dimensional domain

17:30-17:50 B. Dinis and I. Van den Berg. An axiomatic approach to modelling of orders of magnitude

Program on Monday, July 14th

17:50-18:10 E. Bottazzi. Elementary numerosities and measures.

Session 42P (LC): Contributed talks J1

16:30-18:30

Chair:

Location: MB, Seminarraum 7

16:30-16:50 Q. Brouette and F. Point. Differential Galois theory in the class of formally real fields.

16:50-17:10 N. Hempel. Around n -dependent fields

17:10-17:30 B. Kulpeshov. Some remarks on \aleph_0 -categorical weakly circularly minimal structures

17:30-17:50 P. Zambrano and A. Villaveces. Uniqueness of limit models in metric abstract elementary classes under categoricity and some consequences in domination and orthogonality of Galois types

17:50-18:10 M. Koerwien, J.T. Baldwin and M.C. Laskowski. Amalgamation, characterizing cardinals and locally finite Abstract Elementary Classes

18:10-18:30 W. Boney. Computing the number of types of infinite tuples

Session 43 (ITP): ITP business meeting

18:00-18:30

Chair:

Location: FH, Hörsaal 8

Session 44 (VSL): VSL Opening Reception

20:00-21:30

Chair:

Location: Rathaus

Program on Tuesday, July 15th

Program on Tuesday, July 15th

Conferences:

VSL: Vienna Summer of Logic 2014
FLoC: Federated Logic Conference 2014
CAV: International Conference on Computer Aided Verification
CSF: 2014 IEEE Computer Security Foundations Symposium
CSL-LICS: Joint Meeting of the 23rd EACSL Annual Conference on Computer Science Logic and the 29th ACM/IEEE Symposium on Logic in Computer Science
ICLP: 30th International Conference on Logic Programming
IJCAR: 7th International Joint Conference on Automated Reasoning (IJCAR)
ITP: 5th International Conference on Interactive Theorem Proving
RTA-TLCA: Joint 25th International Conference on Rewriting Techniques and Applications and 12th Typed Lambda Calculi and Applications
SAT: 17th International Conference on Theory and Applications of Satisfiability Testing
LC: Logic Colloquium 2014
LG: Logic and Games 2014

Program on Tuesday, July 15th

VSL	FLoC	CAV	CSF	CSL-LICS	CSL-LICS
08:45-10:15 VSL Session 44 FLoC Plenary Talk	08:45-10:15 FLoC Session 44 FLoC Plenary Talk	08:45-10:15 CAV Session 44 FLoC Plenary Talk	08:45-10:15 CSF Session 44 FLoC Plenary Talk	08:45-10:15 CSL-LICS Session 44 FLoC Plenary Talk	
10:15-10:45 Coffee Break					
				10:45-13:00 CSL-LICS Session 47A Automata	10:45-13:00 CSL-LICS Session 47B Concurrency and Games
13:00-14:30 Lunch Break					
				14:30-16:00 CSL-LICS Session 50A Graphs and Logic	14:30-16:00 CSL-LICS Session 50B Model Checking
16:00-16:30 Coffee Break					
				16:30-17:30 CSL-LICS Session 52A Invited talk by Patrick Cousot	
18:00-19:00 VSL Session 54 SIGLOG Meeting	18:00-19:00 FLoC Session 54 SIGLOG Meeting				
19:00-20:00 Session 56A:VSL Public Lecture 1				19:00-20:00 CSL-LICS Session 55A Annual meeting of the EACSL	19:00-20:00 Session 56A:VSL Public Lecture 1

Program on Tuesday, July 15th

ICLP	IJCAR	ITP	RTA-TLCA	SAT	LC
08:45-10:15 ICLP Session 44 FLoC Plenary Talk	08:45-10:15 IJCAR Session 44 FLoC Plenary Talk	08:45-10:15 ITP Session 44 FLoC Plenary Talk	08:45-10:15 RTA-TLCA Session 44 FLoC Plenary Talk	08:45-10:15 SAT Session 44 FLoC Plenary Talk	09:15-10:15 LC Session 46 Invited talk
10:15-10:45 Coffee Break					
		10:45-13:00 ITP Session 47C	10:45-13:00 RTA-TLCA Session 47D	10:45-11:45 SAT Session 47F Proof Complexity I	11:00-13:00 LC Session 48 Tutorial and Karp prize winner
13:00-14:30 Lunch Break					
		14:30-16:00 ITP Session 50C Invited Talk	14:30-16:00 RTA-TLCA Session 50D	14:30-15:30 SAT Session 50F Invited Talk I	14:30-16:00 LC Session 50G Special session: Logic of Games and Rational Choice
16:00-16:30 Coffee Break					
		16:30-18:00 ITP Session 52B User Interfaces	16:30-18:00 RTA-TLCA Session 52C	16:30-17:00 SAT Session 52E	16:30-18:30 LC Session 52F Contributed talks A2
				17:00-18:00 SAT Session 53 SAT Association General Assembly	
19:00-20:00 Session 56A:VSL Public Lecture 1			19:00-23:00 RTA-TLCA Session 55B RTA/TLCA conference dinner	19:00-20:00 Session 56A:VSL Public Lecture 1	

Program on Tuesday, July 15th

LC	LC	LC	LC	LC	LC
10:15-10:45 Coffee Break					
13:00-14:30 Lunch Break					
14:30-16:00 LC Session 50H Special session: Recursion Theory	14:30-16:00 LC Session 50I Special session: Set Theory	14:30-16:00 LC Session 50J Special Session: The Place of Logic in Computer Science Education			
16:00-16:30 Coffee Break					
16:30-18:30 LC Session 52G Contributed talks B2	16:30-18:30 LC Session 52H Contributed talks C2	16:30-18:30 LC Session 52I Contributed talks D2	16:30-18:30 LC Session 52J Contributed talks E2	16:30-18:30 LC Session 52K Contributed talks F2	16:30-18:30 LC Session 52L Contributed talks G2
19:00-20:00 Session 56A:VSL Public Lecture 1					

Program on Tuesday, July 15th

LC	LC	LC	LG
			09:00-10:15 LG Session 45 Logic and games from cognitive, social, and abstract perspectives (1/2)
10:15-10:45 Coffee Break			
			10:45-13:00 LG Session 47E Logic and games from cognitive, social, and abstract perspectives (2/2)
13:00-14:30 Lunch Break			
			14:30-16:15 LG Session 50E Games for belief revision and non- classical logic (1/2)
16:00-16:30 Coffee Break			
16:30-18:30 LC Session 52M Contributed talks H2	16:30-18:30 LC Session 52N Contributed talks I2	16:30-18:30 LC Session 52P Contributed talks J2	16:30-17:45 LG Session 52D Games for belief revision and non- classical logic (2/2)
19:00-20:00 Session 56A:VSL Public Lecture 1			

Program on Tuesday, July 15th

Session 44 (CAV, CSF, CSL-LICS, FLoC, ICLP, IJCAR, ITP, RTA-TLCA, SAT, VSL): FLoC Plenary Talk
08:45-10:15

Chair: Moshe Vardi

Location: FH, Hörsaal 1

08:45-09:45 O. Kupfermann. FLoC Plenary Talk: From Reachability to Temporal Specifications in Game Theory

Session 45 (LG): Logic and games from cognitive, social, and abstract perspectives (1/2)
09:00-10:15

Chair:

Location: MB, Hörsaal 12

09:00-09:45 K. Terui. Ludics and interactive completeness

09:45-10:15 S. Ghosh and A. Heifetz. Forward and backward induction in dynamic games: Distilling the axiomatic differences on common ground

Session 46 (LC): Invited talk
09:15-10:15

Chair:

Location: MB, Prechtlsaal

09:15-10:15 M.I. Soskova. Definability, automorphisms and enumeration degrees

Session 47A (CSL-LICS): Automata
10:45-13:00

Chair: Andrzej Murawski

Location: FH, Hörsaal 1

10:45-11:15 T. Brazdil, S. Kiefer, A. Kucera, P. Novotný and J.-P. Katoen. Zero-Reachability in Probabilistic Multi-Counter Automata

11:15-11:45 M. Hague. Senescent Ground Tree Rewrite Systems

11:45-12:15 W. Chen and M. Hofmann. Abstract Interpretation from Buchi Automata

12:15-12:45 T. Place and M. Zeitoun. Separating Regular Languages with First-Order Logic

Session 47B (CSL-LICS): Concurrency and Games
10:45-13:00

Chair: Krishnendu Chatterjee

Location: FH, Hörsaal 5

10:45-11:15 F. Bonchi, D. Petrisan, D. Pous and J. Rot. Coinduction Up-To in a Fibrational Setting

11:15-11:45 L. Padovani. Deadlock and lock freedom in the linear pi-calculus

11:45-12:15 V. Bruyère, N. Meunier and J.-F. Raskin. Secure Equilibria in Weighted Games

12:15-12:45 S. Le Roux and A. Pauly. Infinite sequential games with real-valued payoffs

Session 47C (ITP)
10:45-13:00

Chair:

Location: FH, Hörsaal 8

10:45-11:15 E.-I. Bartzia and P.-Y. Strub. A Formal Library for Elliptic Curves in the Coq Proof Assistant

11:15-11:45 K. Emoto, F. Loulergue and J. Tesson. A Verified Generate-Test-Aggregate Coq Library for Parallel Programs Extraction

11:45-12:15 P. Lammich. Verified Efficient Implementation of Gabow's Strongly Connected Component Algorithm

12:15-12:45 J.C. Blanchette, A. Popescu and D. Traytel. Cardinals in Isabelle/HOL

12:45-13:00 R. Arthan. HOL Constant Definitions Done Right

Session 47D (RTA-TLCA)
10:45-13:00

Chair:

Location: Informatikhörsaal

10:45-11:15 S. Berardi and S. Steila. Ramsey Theorem as an intuitionistic property of well founded relations

11:15-11:45 H. Zantema, B. Koenig and S. Bruggink. Termination of Cycle Rewriting

11:45-12:15 C. Fuhs and C. Kop. First-Order Formative Rules

12:15-12:45 C. Sternagel and R. Thiemann. Formalizing monotone algebras for certification of termination- and complexity proofs

Program on Tuesday, July 15th

12:45-13:00 A. Yamada, K. Kusakari and T. Sakabe. Nagoya Termination Tool (System Description)

Session 47E (LG): Logic and games from cognitive, social, and abstract perspectives (2/2)

10:45-13:00

Chair:

Location: MB, Hörsaal 12

10:45-11:30 G. Sandu. Signaling in independence-friendly logic

11:30-12:00 D. Berwanger and M. van den Bogaard. Game Reduction

12:00-12:30 E. Genot and J. Jacot. Game Semantics from a Cognitive Modeling Standpoint

12:30-13:00 R.K. Rendsvig. Emulating Diffusion and Best Response Dynamics in Social Networks using Action Models

Session 47F (SAT): Proof Complexity I

10:45-11:45

Chair:

Location: FH, Hörsaal 6

10:45-11:15 M. Miksa and J. Nordström. Long Proofs of (Seemingly) Simple Formulas

11:15-11:45 G. Istrate and A. Crăciun. Proof complexity and the Lovasz-Kneser Theorem

Session 48 (LC): Tutorial and Karp prize winner

11:00-13:00

Chair:

Location: MB, Prechtlsaal

11:00-12:00 K. Apt. Tutorial on Strategic and Extensive Games 2

12:00-13:00 M. Aschenbrenner. Logic meets number theory in ω -minimality

Session 49 (SAT): Parallel and Incremental (Q)SAT

11:50-13:00

Chair:

Location: FH, Hörsaal 6

11:50-12:20 A. Nadel, O. Strichman and V. Ryvchin. Ultimately Incremental SAT

12:20-12:40 T. Sonobe, S. Kondoh and M. Inaba. Community Branching for Parallel Portfolio SAT Solvers

12:40-13:00 L. Simon and G. Audemard. Lazy clause exchange policy for parallel SAT solvers

Session 50A (CSL-LICS): Graphs and Logic

14:30-16:00

Chair: Erich Graedel

Location: FH, Hörsaal 1

14:30-15:00 A. Blumensath, T. Colcombet, D. Kuperberg, P. Parys and M. Vanden Boom. Two-Way Cost Automata and Cost Logics over Infinite Trees

15:00-15:30 B. Bollig, P. Gastin, B. Monmege and M. Zeitoun. Logical Characterization of Weighted Pebble Walking Automata

15:30-16:00 G. Gottlob and E. Malizia. Achieving New Upper Bounds for the Hypergraph Duality Problem through Logic

Session 50B (CSL-LICS): Model Checking

14:30-16:00

Chair: Anuj Dawar

Location: FH, Hörsaal 5

14:30-15:00 C. Dittmann, S. Kreutzer and M. Bojanczyk. Decomposition Theorems and Model-Checking for the Modal μ -calculus

15:00-15:30 I. Pratt-Hartmann. Logics with Counting and Equivalence

15:30-16:00 E. Koskinen and T. Terauchi. Local Temporal Reasoning

Session 50C (ITP): Invited Talk

14:30-16:00

Chair:

Location: FH, Hörsaal 8

14:30-15:00 G. Naves and A. Spiwack. Balancing lists: a proof pearl

Program on Tuesday, July 15th

15:00-16:00 R. Chapman and F. Schanda. Invited talk: Are We There Yet? 20 Years of Industrial Theorem Proving with SPARK

Session 50D (RTA-TLCA)

14:30-16:00

Chair:

Location: Informatikhörsaal

14:30-15:30 N. Gambino. A unified approach to Univalent Foundations and Homotopical Algebra

15:30-16:00 M. Hofmann and G. Moser. Amortised Resource Analysis and Typed Polynomial Interpretations

Session 50E (LG): Games for belief revision and non-classical logic (1/2)

14:30-16:15

Chair:

Location: MB, Hörsaal 12

14:30-15:15 O. Majer. Semantic games for Łukasiewicz logic

15:15-15:45 J. Marti and R. Pinosio. Game Semantics for Conditional Logic

15:45-16:15 M. Sticht. Multi-Agent Dialogical Games for Modal Logic

Session 50F (SAT): Invited Talk I

14:30-15:30

Chair:

Location: FH, Hörsaal 6

14:30-15:30 J. Nordström. A (Biased) Proof Complexity Survey for SAT Practitioners

Session 50G (LC): Special session: Logic of Games and Rational Choice

14:30-16:00

Chair:

Location: MB, Hörsaal 15

14:30-15:15 R. Parikh. Elections and knowledge

15:15-16:00 G. Sandu. Nash equilibrium semantics for Independence-Friendly Logic

Session 50H (LC): Special session: Recursion Theory

14:30-16:00

Chair:

Location: MB, Seminarraum 212/232

14:30-15:15 J. Franklin. UD-randomness and the Turing degrees

15:15-16:00 B. Khoussainov. On finitely presented expansions of groups and algebras

Session 50I (LC): Special session: Set Theory

14:30-16:00

Chair:

Location: MB, Aufbaulabor

14:30-15:15 D.A. Mejía. Matrix iterations and Cichoń's diagram

Program on Tuesday, July 15th

15:15-16:00 K. Slutsky. Regular cross-sections of Borel flows

Session 50J (LC): Special Session: The Place of Logic in Computer Science Education

14:30-16:00

Chair:

Location: MB, Prechtlsaal

14:30-16:00 B. Cook, A. Leitsch, P. Panangaden, N. Schweikardt, H. Veith and R. Zach. The place of logic in computer science education

Session 51 (SAT): Proof Complexity II / 1

15:30-16:00

Chair:

Location: FH, Hörsaal 6

15:30-16:00 O. Kullmann and O. Beyersdorff. Unified characterisations of resolution hardness measures

Session 52A (CSL-LICS): Invited talk by Patrick Cousot

16:30-17:30

Chair: Tom Henzinger

Location: FH, Hörsaal 1

16:30-17:30 P. Cousot and R. Cousot. Abstract Interpretation: Past, Present and Future

Session 52B (ITP): User Interfaces

16:30-18:00

Chair:

Location: FH, Hörsaal 8

16:30-17:00 D. Matichuk, M. Wenzel and T. Murray. An Isabelle Proof Method Language

17:00-17:30 M. Wenzel. Asynchronous User Interaction and Tool Integration in Isabelle/PIDE

17:30-18:00 M. Ring and C. Lüth. Collaborative Interactive Theorem Proving with Clide

Session 52C (RTA-TLCA)

16:30-18:00

Chair:

Location: Informatikhörsaal

16:30-17:00 P. Fu and A. Stump. Self Types for Dependently Typed Lambda Encodings

17:00-17:30 C. Roux and F. van Doorn. The Structural Theory of Pure Type Systems

17:30-18:00 A. Abel, B. Pientka, A. Setzer and D. Thibodeau. Unnesting of Copatterns

Session 52D (LG): Games for belief revision and non-classical logic (2/2)

16:30-17:45

Chair:

Location: MB, Hörsaal 12

16:30-17:00 J. Yaggie and G. Turan. Non-characterizability in belief revision: an application of finite model theory

17:00-17:30 C. Baskent. Game Semantics for Some Non-Classical Logics

Session 52E (SAT): Proof Complexity II / 2

16:30-17:00

Chair:

Location: FH, Hörsaal 6

16:30-17:00 V. Balabanov, M. Widl and J.-H.R. Jiang. QBF Resolution Systems and their Proof Complexities

Session 52F (LC): Contributed talks A2

16:30-18:30

Chair:

Location: MB, Hörsaal 14

16:30-16:50 A. Molnar and G. Szekely. Modal logic of clocks: Modalizing a first-order theory of time to get a better understanding of relativity theories

16:50-17:10 S. Oms. Towards a Conditional for The Liar and the Sorites.

17:10-17:30 S. Veloso, P. Veloso and M. Benevides. On graph calculus approach to modalities

17:30-17:50 M. Yanchev. Complexity of generalized grading with inverse relations and intersection of relations

17:50-18:10 T.-F. Fan and C.-J. Liao. Fuzzy Bsimulation for Standard Godel Modal Logic

Program on Tuesday, July 15th

18:10-18:30 W. Conradie and C. Robinson. Hybrid extensions of S4 with the finite model property

Session 52G (LC): Contributed talks B2

16:30-18:30

Chair:

Location: MB, Hörsaal 15

16:30-16:50 P. Wojtylak and W. Dzik. Almost structurally complete consequence operations extending S4.3

16:50-17:10 V. Stepanov. Truth theory for logic of self-reference statements as a quaternion structure

17:10-17:30 G. Robles. A Routley-Meyer semantics for Gödel 3-valued logic G3

17:30-17:50 J.M. Méndez, G. Robles and F. Salto. Blocking the routes to triviality with depth relevance

Session 52H (LC): Contributed talks C2

16:30-18:30

Chair:

Location: MB, Zeichensaal 15

16:30-16:50 V. Goranko. On the almost sure validities in the finite in some fragments of monadic second-order logic

16:50-17:10 M. Tatsuta and W.-N. Chin. Completeness of second-order separation logic for program verification

17:10-17:30 O. Finkel. Infinite Games Specified by 2-Tape Automata

17:30-17:50 J. Pich. Circuit lower bounds in bounded arithmetics

17:50-18:10 M. Garlik. Model theory of bounded arithmetic and complexity theory

18:10-18:30 T. Studer. Weak Arithmetical Semantics for the Logic of Proofs

Session 52I (LC): Contributed talks D2

16:30-18:30

Chair:

Location: MB, Seminarraum 5

16:30-16:50 N. Bazhenov. Boolean algebras and degrees of autostability relative to strong constructivizations

16:50-17:10 P. Alaev. The Δ^0_{α} -dimension of computable structures

17:10-17:30 A. Frolov and M. Zubkov. On categoricity of scattered linear orders

17:30-17:50 A. Beres. A DNC function that computes no effectively bi-immune set

17:50-18:10 M. McInerney. Integer-valued randomness and degrees

18:10-18:30 R. Kuyper. Effective genericity and differentiable functions

Session 52J (LC): Contributed talks E2

16:30-18:30

Chair:

Location: MB, Seminarraum 2

16:30-16:50 R. Birkmukhametov. On Σ^0_2 -initial segments of computable linear orders

16:50-17:10 D. Belanger and R. Shore. A non-uniqueness theorem for jumps of principal ideals

17:10-17:30 P. Shafer. Every non-zero honest elementary degree has the cupping property

17:30-17:50 M. Harrison-Traylor. Degree spectra of relations on a cone

17:50-18:10 A. Frolov. Δ^0_2 -spectra of linear orderings

18:10-18:30 P. Semukhin, E. Fokina and D. Turetsky. Degree spectra of structures under Σ_n -equivalence.

Session 52K (LC): Contributed talks F2

16:30-18:30

Chair:

Location: MB, Seminarraum 212/232

16:30-16:50 L. Leustean. Effective results on the asymptotic behavior of nonexpansive iterations

16:50-17:10 A.C.-F.A.F.F. Lara-Martin. Π_1 induction axioms vs Π_1 induction rules

17:10-17:30 A. Marcone. Reverse mathematics of WQOs and Noetherian spaces

17:30-17:50 S. Salehi. A characterization for diagonalized-out objects

17:50-18:10 T.L. Wong. Some applications of the Arithmetized Completeness Theorem to second-order arithmetic

Program on Tuesday, July 15th

18:10-18:30 A. Vladimirov. Some properties of Intuitionistic Set Theory with the principle UP.

Session 52L (LC): Contributed talks G2

16:30-18:30

Chair:

Location: MB, Seminarraum 3

16:30-16:50 L. San Mauro. The complexity of computably enumerable graphs

16:50-17:10 K. Higuchi. The order dimensions of degree structures

17:10-17:30 S. Ospichev. Computable numberings in Ershov hierarchy

17:30-17:50 D.T. Soukup. Davies-trees in infinite combinatorics

17:50-18:10 W. Stadnicki. A descriptive set theoretical axiomatization of the Mathias model.

18:10-18:30 M. Habič. Restricting Martin's axiom to a ccc ground model

Session 52M (LC): Contributed talks H2

16:30-18:30

Chair:

Location: MB, Seminarraum 4

16:30-16:50 R. Lubarsky and N.L. Perlmutter. Elementary epimorphisms between models of set theory

16:50-17:10 N. Dobrinen. Generalized Ellentuck spaces and initial Tukey chains of non-p-points

17:10-17:30 K. Beres. Co-analytic ideals on ω_1

17:30-17:50 S. Miller and N. Dobrinen. Budding Trees

17:50-18:10 H.-C. Tsai. Finite Inseparability of Elementary Theories Based on Connection

Session 52N (LC): Contributed talks I2

16:30-18:30

Chair:

Location: MB, Seminarraum 6

16:30-16:50 N. Meir. On various strengthenings of the notion of indivisibility

16:50-17:10 R. Villemaire. An ordinal rank characterising when Forth suffices

17:10-17:30 A. Ivanov. Extreme amenability of precompact expansions of countably categorical structures

17:30-17:50 H. Andr eka and I. N emeti. Weak Beth definability property for finite variable fragments.

17:50-18:10 J. Martinez-Fernandez. Non-monotonic extensions of the weak Kleene clone with constants

18:10-18:30 A. Simpson. A sheaf model of randomness

Session 52P (LC): Contributed talks J2

16:30-18:30

Chair:

Location: MB, Seminarraum 7

16:30-16:50 H.C. Fu. A Defense of Information Economy Principle

16:50-17:10 H. Field and H. Lederman. Prospects for a Naive Theory of Classes

17:10-17:30 A. Vincenzi. On the logical use of implicit contradictions

17:30-17:50 G. Jagiella. Definable topological dynamics and real Lie groups

17:50-18:10 J. Dobrowolski. Topologies on Polish structures

18:10-18:30 J.-L. Lee. Explosiveness, Model Existence, and Incompatible Paraconsistencies

Session 53 (SAT): SAT Association General Assembly

17:00-18:00

Chair:

Location: FH, H rsaal 6

Session 54 (FLoC, VSL): SIGLOG Meeting

18:00-19:00

Chair:

Location: FH, H rsaal 5

Program on Tuesday, July 15th

Session 56A (VSL): VSL Public Lecture 1
19:00-20:00

Chair:

Location: MB, Kuppelsaal

19:00-20:00 K. Sigmund. VSL Public Lecture: Gödel in Vienna

Session 55A (CSL-LICS): Annual meeting of the EACSL
19:00-20:00

Chair:

Location: FH, Hörsaal 1

Session 55B (RTA-TLCA): RTA/TLCA conference dinner
19:00-23:00

Chair:

Program on Wednesday, July 16th

Program on Wednesday, July 16th

Conferences:

CSL-LICS: Joint Meeting of the 23rd EACSL Annual Conference on Computer Science Logic and the 29th ACM/IEEE Symposium on Logic in Computer Science

ITP: 5th International Conference on Interactive Theorem Proving

RTA-TLCA: Joint 25th International Conference on Rewriting Techniques and Applications and 12th Typed Lambda Calculi and Applications

SAT: 17th International Conference on Theory and Applications of Satisfiability Testing

LC: Logic Colloquium 2014

LATD: Logic, Algebra, and Truth Degrees 2014

Program on Wednesday, July 16th

CSL-LICS	CSL-LICS	ITP	RTA-TLCA	SAT	LC
08:45-10:15 Session 57:VSL Keynote Talk					
10:15-10:45 Coffee Break					
10:45-13:00 CSL-LICS Session 56A Models and Expressiveness	10:45-13:00 CSL-LICS Session 56B Proofs and Verification	10:45-13:00 ITP Session 56C Mathematics	10:45-13:00 RTA-TLCA Session 56D	10:45-11:55 SAT Session 56E Applications	11:00-13:00 LC Session 57 Tutorial and invited talk
				12:00-13:00 SAT Session 58 Structure	
13:00-14:30 Lunch Break					
14:30-16:00 CSL-LICS Session 59A Graphs and Logic	14:30-16:00 CSL-LICS Session 59B Types and Specifications	14:30-16:00 ITP Session 59C Invited Talk	14:30-16:00 RTA-TLCA Session 59D	14:30-15:30 SAT Session 59E Invited Talk II	14:30-19:00 LC Session 59F Excursion
				15:30-16:00 SAT Session 60	
16:00-16:30 Coffee Break					
16:30-18:30 CSL-LICS Session 61A Guarded and Separation Logics	16:30-18:30 CSL-LICS Session 61B Proof Theory	16:30-18:00 ITP Session 61C Automation	16:30-18:00 RTA-TLCA Session 61D	16:30-18:00 SAT Session 61E Simplification and Solving I / 2	
19:00-21:30 Session 64:VSL Banquet 1					

Program on Wednesday, July 16th

LATD	LATD
08:45-10:15 Session 57:VSL Keynote Talk	
10:15-10:45 Coffee Break	
10:45-12:45 LATD Session 56F Invited Talk (Urquhart) and Tutorial (Marra)	
13:00-14:30 Lunch Break	
14:30-16:00 LATD Session 59G Contributed Talks	14:30-16:00 LATD Session 59H Contributed Talks
16:00-16:30 Coffee Break	
16:30-18:00 LATD Session 61F Contributed Talks	16:30-18:00 LATD Session 61G Contributed Talks
19:00-21:30 Session 64:VSL Banquet 1	

Program on Wednesday, July 16th

Session 57 (VSL): VSL Keynote Talk
08:45-10:15

Chair: Matthias Baaz

Location: EI, EI 7 + EI 9, EI 10 + FH, Hörsaal 1

08:45-09:45 A. Wilkie. VSL Keynote Talk: The theory and applications of o-minimal structures

Session 56A (CSL-LICS): Models and Expressiveness
10:45-13:00

Chair: Andrzej Murawski

Location: FH, Hörsaal 1

10:45-11:15 P. Barceló and P. Muñoz. Graph Logics with Rational Relations: The Role of Word Combinatorics

11:15-11:45 S. Bova, R. Ganian and S. Szeider. Model Checking Existential Logic on Partially Ordered Sets

11:45-12:15 P.A. Abdulla, M.F. Atig, P. Hofman, R. Mayr, K. Narayan Kumar and P. Totzke. Infinite-State Energy Games

12:15-12:45 F. Carreiro, A. Facchini, Y. Venema and F. Zanasi. Weak MSO: Automata and Expressiveness Modulo Bisimilarity

Session 56B (CSL-LICS): Proofs and Verification
10:45-13:00

Chair: Kaustuv Chaudhuri

Location: FH, Hörsaal 5

10:45-11:15 D. Ilik. Axioms and Decidability for Type Isomorphism in the Presence of Sums

11:15-11:45 P.-M. Pédrot. A functional functional interpretation

11:45-12:15 N. Guenot and L. Strassburger. Symmetric Normalisation for Intuitionistic Logic

12:15-12:45 M. Fredrikson and S. Jha. Satisfiability Modulo Counting: A New Approach for Analyzing Privacy Properties

Session 56C (ITP): Mathematics
10:45-13:00

Chair:

Location: FH, Hörsaal 8

10:45-11:15 F. Chyzak, A. Mahboubi, T. Sibut-Pinote and E. Tassi. A Computer-Algebra-Based Formal Proof of the Irrationality of $\zeta(3)$

11:15-11:45 C. Cohen and A. Mörtberg. A Coq Formalization of Finitely Presented Modules

11:45-12:15 M.Y. Mahmoud, V. Aravatinos and S. Tahar. Formal Verification of Optical Quantum Flip Gate

12:15-12:45 U. Siddique, M.Y. Mahmoud and S. Tahar. On the Formalization of Z-Transform in HOL

12:45-13:00 D. Puri, S. Ray, K. Hao and F. Xie. Mechanical Certification of Loop Pipelining Transformations: A Preview

Session 56D (RTA-TLCA)
10:45-13:00

Chair:

Location: Informatikhörsaal

10:45-11:15 G. Burel. Cut Admissibility by Saturation

11:15-11:45 K. Bae and J. Meseguer. Predicate Abstraction of Rewrite Theories

11:45-12:15 A. Stefanescu, S. Ciobaca, R. Mereuta, B. Moore, T.F. Serbanuta and G. Rosu. All-Path Reachability Logic

12:15-12:45 R. Maieli. Construction of retractile proof structures

Session 56E (SAT): Applications
10:45-11:55

Chair:

Location: FH, Hörsaal 6

10:45-11:05 B. Konev and A. Lisitsa. A SAT Attack on the Erdos Discrepancy Conjecture

11:05-11:35 T. Heyman, D. Smith, L. Leong, H. Husam and Y. Mahajan. Dominant Controllability Check Using QBF-Solver and Netlist Optimizer

Program on Wednesday, July 16th

11:35-11:55 B. Finkbeiner and L. Tentrup. Fast DQBF Refutation

Session 56F (LATD): Invited Talk (Urquhart) and Tutorial (Marra)
10:45-12:45

Chair:

Location: MB, Festsaal

10:45-11:45 A. Urquhart. Relevance Logic: Problems Open and Closed

11:45-12:45 V. Marra. Tutorial 1/2: The more, the less, and the much more: An introduction to Lukasiewicz logic as a logic of vague propositions, and to its applications

Session 57 (LC): Tutorial and invited talk
11:00-13:00

Chair:

Location: MB, Prechtlsaal

11:00-12:00 K. Apt. Tutorial on Strategic and Extensive Games 3

12:00-13:00 P. Blanchette. The Birth of Semantic Entailment

Session 58 (SAT): Structure
12:00-13:00

Chair:

Location: FH, Hörsaal 6

12:00-12:30 F. Slivovsky and S. Szeider. Variable Dependencies and Q-Resolution

12:30-13:00 Z. Newsham, V. Ganesh, S. Fischmeister, G. Audemard and L. Simon. Impact of Community Structure on SAT Solver Performance

Session 59A (CSL-LICS): Graphs and Logic
14:30-16:00

Chair: Neil Immerman

Location: FH, Hörsaal 1

14:30-15:00 S. Kreutzer and N. Schweikardt. On Hanf-equivalence and the number of embeddings of small induced subgraphs

15:00-15:30 H. Chen and M. Mueller. One Hierarchy Spawns Another: Graph Deconstructions and the Complexity Classification of Conjunctive Queries

15:30-16:00 H. Chen. The Tractability Frontier of Graph-Like First-Order Query Sets

Session 59B (CSL-LICS): Types and Specifications
14:30-16:00

Chair: Laurent Doyen

Location: FH, Hörsaal 5

14:30-15:00 J. Cretin and D. Rémy. System F with Coercion Constraints

15:00-15:30 G. Petric Maretic, M. Torabi Dashti and D. Basin. Anchored LTL Separation

15:30-16:00 J.-P. Katoen, L. Song and L. Zhang. Probably Safe or Live

Session 59C (ITP): Invited Talk
14:30-16:00

Chair:

Location: FH, Hörsaal 8

14:30-15:00 T. Bourke, R. van Glabbeek and P. Höfner. Showing invariance compositionally for a process algebra for network protocols

15:00-16:00 P. Sewell. Invited talk: Retrofitting Rigour

Session 59D (RTA-TLCA)
14:30-16:00

Chair:

Location: Informatikhörsaal

14:30-15:30 M. Schmidt-Schauß. Concurrent Programming Languages and Methods for Semantic Analyses

Program on Wednesday, July 16th

15:30-16:00 A. Bizjak, L. Birkedal and M. Miculan. A Model of Countable Nondeterminism in Guarded Type Theory

Session 59E (SAT): Invited Talk II
14:30-15:30

Chair:

Location: FH, Hörsaal 6

14:30-15:30 L. De Moura and D. Jovanović. A Model-Constructing Satisfiability Calculus

Session 59F (LC): Excursion
14:30-19:00

Chair:

Session 59G (LATD): Contributed Talks
14:30-16:00

Chair:

Location: MB, Festsaal

14:30-15:00 A. Vidal Wandelmer, F. Esteva and L. Godo. Axiomatising a fuzzy modal logic over the standard product algebra

15:00-15:30 J. Rogger. Decidability of order-based modal logics

15:30-16:00 U. Rivieccio and A. Craig. Many-valued modal logic over residuated lattices via duality

Session 59H (LATD): Contributed Talks
14:30-16:00

Chair:

Location: MB, Hörsaal 15

14:30-15:00 A. Muravitsky. Semantic information and fuzziness

15:00-15:30 D. Schwartz. Qualified Syllogisms with Fuzzy Predicates

15:30-16:00 E. Turunen. Connecting Fuzzy Sets and Pavelka's Fuzzy Logic

Session 60 (SAT): Simplification and Solving I / 1
15:30-16:00

Chair:

Location: FH, Hörsaal 6

15:30-16:00 A. Balint, A. Biere, A. Fröhlich and U. Schöning. Efficient implementation of SLS solvers and new heuristics for k-SAT with long clauses

Session 61A (CSL-LICS): Guarded and Separation Logics
16:30-18:30

Chair: Anuj Dawar

Location: FH, Hörsaal 1

16:30-17:00 M. Benedikt, B. Ten Cate and M. Vanden Boom. Effective Interpolation and Preservation in Guarded Logics

17:00-17:30 S. Demri and M. Deters. Expressive Completeness of Separation Logic With Two Variables and No Separating Conjunction

17:30-18:00 J. Brotherston, C. Fuhs, N. Gorigiannis and J. Navarro Perez. A Decision Procedure for Satisfiability in Separation Logic with Inductive Predicates

Session 61B (CSL-LICS): Proof Theory
16:30-18:30

Chair: Damiano Mazza

Location: FH, Hörsaal 5

16:30-17:00 M. Fiore and S. Staton. Substitution, jumps, and algebraic effects

17:00-17:30 W. Heijltjes and R. Houston. No proof nets for MLL with units: Proof equivalence in MLL is PSPACE-complete

Program on Wednesday, July 16th

17:30-18:00 K. Chaudhuri and N. Guenot. Equality and Fixpoints in the Calculus of Structures

Session 61C (ITP): Automation
16:30-18:00

Chair:

Location: FH, Hörsaal 8

16:30-17:00 J. Avigad, R.Y. Lewis and C. Roux. A heuristic prover for real inequalities

17:00-17:30 T. Nipkow and D. Traytel. Unified Decision Procedures for Regular Expression Equivalence

17:30-18:00 S. Blazy, V. Laporte and D. Pichardie. Verified Abstract Interpretation Techniques for Disassembling Low-level Self-modifying Code

Session 61D (RTA-TLCA)
16:30-18:00

Chair:

Location: Informatikhörsaal

16:30-17:00 M. Escardo and A. Simpson. Abstract datatypes for real numbers in type theory

17:00-17:30 P.-A. Melliès. Local stores in string diagrams

17:30-18:00 M. Dezani-Ciancaglini and S. Ghilezan. Preciseness of subtyping on intersection and union types

Session 61E (SAT): Simplification and Solving I / 2
16:30-18:00

Chair:

Location: FH, Hörsaal 6

16:30-17:00 T. Balyo, A. Fröhlich, M. Heule and A. Biere. Everything You Always Wanted to Know About Blocked Sets (But Were Afraid to Ask)

17:00-17:30 Y. Fekete and M. Codish. Simplifying Pseudo-Boolean Constraints in Residual Number Systems

17:30-18:00 A. Biere, D. Le Berre, E. Lonca and N. Manthey. Detecting cardinality constraints in CNF

Session 61F (LATD): Contributed Talks
16:30-18:00

Chair:

Location: MB, Festsaal

16:30-17:00 C. Van Alten. Embedding partially ordered sets into distributive lattices

17:00-17:30 M.A. Moshier. Bitopological Duality and Three-valued Logic

17:30-18:00 A. Přenosil. De Morgan logics with a notion of inconsistency

Session 61G (LATD): Contributed Talks
16:30-18:00

Chair:

Location: MB, Hörsaal 15

16:30-17:00 G. Mar. Chaotic Fuzzy Liars, Degrees of Truth, and Fractal Images of Paradox

17:00-17:30 F. Bjørdal. Truth degrees in the interval $[-1, 1]$ for the librationist system $\$ \pounds \$$.

17:30-18:00 T. Polacik. A semantic approach to conservativity

Session 64 (VSL): VSL Banquet 1
19:00-21:30

Chair:

Location: Schönbrunn

Program on Thursday, July 17th

Conferences:

VSL: Vienna Summer of Logic 2014
FLoC: Federated Logic Conference 2014
CAV: International Conference on Computer Aided Verification
CSF: 2014 IEEE Computer Security Foundations Symposium
CSL-LICS: Joint Meeting of the 23rd EACSL Annual Conference on Computer Science Logic and the 29th ACM/IEEE Symposium on Logic in Computer Science
ICLP: 30th International Conference on Logic Programming
IJCAR: 7th International Joint Conference on Automated Reasoning (IJCAR)
ITP: 5th International Conference on Interactive Theorem Proving
RTA-TLCA: Joint 25th International Conference on Rewriting Techniques and Applications and 12th Typed Lambda Calculi and Applications
SAT: 17th International Conference on Theory and Applications of Satisfiability Testing
LC: Logic Colloquium 2014
LATD: Logic, Algebra, and Truth Degrees 2014
DL: 27th International Workshop on Description Logics
NMR: 14th International Workshop on Non-Monotonic Reasoning
CICLOPS-WLPE: International Joint Workshop on Implementation of Constraint and Logic Programming Systems and Logic-based Methods in Programming Environments 2014
EC2: 7th International Workshop on Exploiting Concurrency Efficiently and Correctly
HCVS: Workshop on Horn Clauses for Verification and Synthesis
iPRA: Interpolation: From Proofs to Applications
LFMTP: 9th International Workshop on Logical Frameworks and Meta-languages: Theory and Practice
NLCS: Second Workshop on Natural Language and Computer Science
NSV: 7th International Workshop on Numerical Software Verification
PAS: Third International Seminar on Program Verification, Automated Debugging and Symbolic Computation
PCCR: 2nd Workshop on the Parameterized Complexity of Computational Reasoning
PLP: Workshop on Probabilistic Logic Programming
PSC: Proof, Structure and Computation
RCRA: 21st RCRA International Workshop on "Experimental Evaluation of Algorithms for solving problems with combinatorial explosion"
REORDER: Third Workshop on Memory Consistency
SMT: 12th International Workshop on Satisfiability Modulo Theories
UITP: User Interfaces for Theorem Provers
VEMDP: International Workshop on Verification of Engineered Molecular Devices and Programs 2014
VPT: Second International Workshop on Verification and Program Transformation
VSTTE: Working Conference on Verified Software: Theories, Tools, and Experiments
WST: 14th International Workshop on Termination

Program on Thursday, July 17th

VSL	FLoC	CAV	CSF	CSL-LICS	CSL-LICS
08:45-10:15 VSL Session 62A FLoC Panel	08:45-10:15 FLoC Session 62A FLoC Panel	08:45-10:15 CAV Session 62A FLoC Panel	08:45-10:15 CSF Session 62A FLoC Panel	08:45-10:15 CSL-LICS Session 62A FLoC Panel	
10:15-10:45 Coffee Break					
				10:45-13:00 CSL-LICS Session 66AA Model Theory and Complexity	10:45-13:00 CSL-LICS Session 66AB Semantics and Verification
13:00-14:30 Lunch Break					
				14:30-16:00 CSL-LICS Session 75AA Models and Games	14:30-16:00 CSL-LICS Session 75AB Programming Language Semantics
16:00-16:30 Coffee Break					
16:30-19:00 Session 79A:VSL Joint Award Ceremony 1					
				19:00-20:00 CSL-LICS Session 84A LICS Business Meeting	
21:00-23:59 Session 89:VSL Student Reception 1					

Program on Thursday, July 17th

ICLP	ICLP	IJCAR	ITP	RTA-TLCA	SAT
08:45-10:15 ICLP Session 62A FLoC Panel	08:45-10:15 ICLP Session 62J Summer School on Computational Logic: Constraint Logic Programming I	08:45-10:15 IJCAR Session 62A FLoC Panel	08:45-10:15 ITP Session 62A FLoC Panel	08:45-10:15 RTA-TLCA Session 62A FLoC Panel	08:45-10:15 SAT Session 62A FLoC Panel
10:15-10:45 Coffee Break					
10:45-13:00 ICLP Session 66AE Summer School on Computational Logic: Constraint Logic Programming II			10:45-13:00 ITP Session 66AC	10:45-12:45 RTA-TLCA Session 66AD	10:45-11:15 SAT Session 66AF 11:15-12:45 SAT Session 69 Analysis
13:00-14:30 Lunch Break					
14:30-16:00 ICLP Session 75AE Summer School on Computational Logic: Horn Clauses and Verification I			14:30-16:00 ITP Session 75AC	14:30-16:00 RTA-TLCA Session 75AD RTA/TLCA business meeting	14:30-16:00 SAT Session 75AF Report on Competitions
16:00-16:30 Coffee Break					
16:30-18:30 ICLP Session 80S Summer School on Computational Logic: Horn Clauses and Verification II	16:30-19:00 Session 79A:VSL Joint Award Ceremony 1				
			19:30-21:00 ITP Session 85 ITP Steering and Program Committee Dinner		
21:00-23:59 Session 89:VSL Student Reception 1					

Program on Thursday, July 17th

LC	LATD	LATD	DL	NMR	CICLOPS-WLPE
09:15-10:15 LC Session 65B Invited talk	08:45-10:15 LATD Session 62D Contributed Talks	08:45-10:15 LATD Session 62E Contributed Talks		08:45-10:15 NMR Session 62I Contributed Talks: Uncertainty 1	08:45-10:15 CICLOPS-WLPE Session 62C Invited Talk I
10:15-10:45 Coffee Break					
11:00-13:00 LC Session 68A Tutorial and invited talk	10:45-12:45 LATD Session 66AS Invited Talk (Miller) and Tutorial (Marra)		10:45-13:00 DL Session 66AQ Invited Talk, Contributed Talks, and Poster Announcements	10:45-12:15 NMR Session 66BA Contributed Talks: Declarative Programming 1	10:45-13:00 CICLOPS-WLPE Session 66AK Program Transformation
				12:15-13:00 NMR Session 73 Contributed Talks:	
13:00-14:30 Lunch Break					
15:00-16:00 LC Session 76A Invited talk	14:30-16:00 LATD Session 75AR Contributed Talks	14:30-16:00 LATD Session 75AS Contributed Talks	14:30-16:00 DL Session 75AP Contributed Talks and Poster Announcements	14:30-15:30 NMR Session 75BB Invited Talk	14:30-16:00 CICLOPS-WLPE Session 75AK Prolog Extensions
				15:30-16:00 NMR Session 78B Contributed Talk: Declarative Programming 2	
16:00-16:30 Coffee Break			16:00-16:50 DL Session 79 Poster Session (with	16:00-16:30 Coffee Break	
16:30-19:00 Session 79A:VSL Joint Award Ceremony 1	16:30-18:00 LATD Session 80I Contributed Talks	16:30-18:00 LATD Session 80J Contributed Talks		16:50-18:30 DL Session 81 Contributed Talks	16:30-18:30 NMR Session 80R Contributed Talks: Belief Change
			19:00-21:00 DL Session 84B DL/NMR Welcome Reception	19:00-21:00 NMR Session 84B DL/NMR Welcome Reception	
21:00-23:59 Session 89:VSL Student Reception 1					

Program on Thursday, July 17th

EC2	HCVS	iPRA	LFMTP	NLCS	NSV
08:45-10:15 EC2 Session 62F Technical session	09:00-10:15 HCVS Session 64A Opening + Invited Talk 1		08:50-10:15 LFMTP Session 63 Technical Session	09:00-10:15 NLCS Session 64D Invited talk: Laure Vieu	09:15-10:15 NSV Session 65A NSV Invited Talk: Jean-Michel Muller
10:15-10:45 Coffee Break					
10:45-12:45 EC2 Session 66AM Technical Session	10:45-13:00 HCVS Session 66AL Technical Session	10:45-13:00 iPRA Session 66AV Invited Talk by Orna Grumberg and Regular Talks	10:45-11:35 LFMTP Session 66AJ Invited Talk	10:45-12:45 NLCS Session 66AR Contributed talks to NLCS	10:45-12:45 NSV Session 66AG NSV Contributed Talks: Formal Methods in Numerical Programs
11:45-13:00 LFMTP Session 70 Technical Session					
13:00-14:30 Lunch Break					
14:30-16:00 EC2 Session 75AT Technical session	14:30-15:30 HCVS Session 75AL Invited Talk	14:30-16:00 iPRA Session 75AW Invited Talk by Pavel Pudlak, Discussions	14:30-15:20 LFMTP Session 75AJ Invited Talk	14:30-16:00 NLCS Session 75AQ Invited talk: Anne Abeille, then a talk contributed to NLCS	14:30-16:00 NSV Session 75AG NSV Contributed Talks: Certified Numerical Computation
15:20-15:45 LFMTP					
16:00-16:30 Coffee Break					
16:30-17:30 EC2 Session 80K Invited talk	16:30-18:00 HCVS Session 80E Technical Session + Discussion	16:30-18:00 iPRA Session 80N iPrA Regular talks	16:30-17:20 LFMTP Session 80D Invited Talk	16:30-18:00 NLCS Session 80H Contributed talks to NLCS	16:30-18:00 NSV Session 80A NSV Invited Talk: Sumit Kumar Jha
17:20-18:10 LFMTP Session 82 Technical Session					
16:30-19:00 Session 79A:VSL Joint Award Ceremony 1					
21:00-23:59 Session 89:VSL Student Reception 1					

Program on Thursday, July 17th

PAS	PCCR	PLP	PSC	RCRA	REORDER
09:00-10:15 PAS Session 64C Opening + Invited Talk by Viorica Sofronie-		08:45-10:15 PLP Session 62G Invited Talk & Welcome	09:15-10:15 PSC Session 65D Invited Talk by Martín Escardó:		09:00-10:15 REORDER Session 64B
10:15-10:45 Coffee Break					
10:45-12:30 PAS Session 66AN Automated Debugging	10:45-11:00	10:45-13:00 PLP Session 66AX Algorithms & Semantics	10:45-12:15 PSC Session 66AU Contributed Talks: Completeness and Computation	10:50-12:10 RCRA Session 67 Propositional Satisfiability	10:45-12:45 REORDER Session 66AM Technical Session
	11:00-12:00 PCCR Session 68B Invited talk			12:10-13:00 RCRA Session 72 Answer Set	
	12:00-13:00 PCCR Session 71 Contributed talks				
13:00-14:30 Lunch Break					
14:30-16:00 PAS Session 75AM Invited Talk by Bruno Buchberger	14:30-15:00 PCCR Session 75AY	14:30-16:00 PLP Session 75AY Applications & Implementation	14:30-16:00 PSC Session 75AV Contributed Talks: Calculus and Termination	14:30-16:00 RCRA Session 75BA Planning & Scheduling	14:00-16:00 REORDER Session 74
	15:00-16:00 PCCR Session 76B Open problems				
16:00-16:30 Coffee Break					
16:30-18:30 PAS Session 80G Program Analysis	16:30-19:00 Session 79A:VSL Joint Award Ceremony 1	16:30-19:00 PLP Session 80P Perspectives - Invited Perspectives	16:30-18:00 PSC Session 80L Contributed Talks: Observation and Justification	16:30-19:00 Session 79A:VSL Joint Award Ceremony 1	16:30-18:00 REORDER Session 80F
21:00-23:59 Session 89:VSL Student Reception 1					

Program on Thursday, July 17th

SMT	UITP	VEMDP	VPT	VSTTE	WST
09:00-10:15 SMT Session 64E Welcome and Invited Talk	09:15-10:15 UITP Session 65C UITP Invited Talk 1 (Geoff Sutcliffe)	08:45-10:15 VEMDP Session 62H			08:45-10:15 WST Session 62B Non-Termination
10:15-10:45 Coffee Break					
10:45-13:00 SMT Session 66AT Program Analysis and Sets	10:45-13:00 UITP Session 66AH UITP Contributed Talks (Proof Strategies, HCI Focus Groups, Proof Visualization, Term Rewriting)	10:45-13:00 VEMDP Session 66AY	10:45-13:00 VPT Session 66AZ Opening and Contributed talks	10:45-13:00 VSTTE Session 66AP Analysis: Understanding and Explanation	10:45-13:00 WST Session 66AI Invited Talk and Imperative Programs
13:00-14:30 Lunch Break					
14:30-16:00 SMT Session 75AU Arrays and Polymorphism	14:30-15:30 UITP Session 75AH UITP Invited Talk 2 (Enrico Tassi)	14:30-16:00 VEMDP Session 75AZ	14:30-15:30 VPT Session 75AL Invited Talk	14:30-16:00 VSTTE Session 75AN Verification Frameworks and Applications	14:30-16:00 WST Session 75AI Ranking Functions and Complexity
16:00-16:30 Coffee Break					
16:30-18:00 SMT Session 80M Discussions on demand	16:30-18:00 UITP Session 80B UITP Contributed Talks - (Isabelle, IDE, Equational Reasoning)	16:30-17:45 VEMDP Session 80Q	16:30-19:00 Session 79A:VSL Joint Award Ceremony 1		16:30-18:00 WST Session 80C New Frontiers
		17:45-18:30 VEMDP Session 83 Poster and demo			
21:00-23:59 Session 89:VSL Student Reception 1					

Program on Thursday, July 17th

Session 62A (CAV, CSF, CSL-LICS, FLoC, ICLP, IJCAR, ITP, RTA-TLCA, SAT, VSL): FLoC Panel
08:45-10:15

Chair: Moshe Vardi

Location: FH, Hörsaal 1

08:45-10:15 N. Amla, G. Gottlob, F. Reckling, S. Roffel and A. Voronkov. FLoC Panel: Publication Models in Computing Research: Is a Change Needed? Are We Ready for a Change?

Session 62B (WST): Non-Termination
08:45-10:15

Chair:

Location: FH, Seminarraum 101B

08:45-09:15 É. Payet and F. Mesnard. Non-termination of Dalvik bytecode via compilation to CLP

09:15-09:45 J. Leike and M. Heizmann. Geometric Series as Nontermination Arguments for Linear Lasso Programs

09:45-10:15 J. Endrullis and H. Zantema. Non-termination using Regular Languages

Session 62C (CICLOPS-WLPE): Invited Talk I
08:45-10:15

Chair: Thomas Ströder

Location: FH, Hörsaal 7

08:45-09:45 M. Codish, L. Cruz-Filipe, M. Frank and P. Schneider-Kamp. Proofs for Optimality of Sorting Networks by Logic Programming

09:45-10:15 . Everyone. Discussion

Session 62D (LATD): Contributed Talks
08:45-10:15

Chair:

Location: MB, Festsaal

08:45-09:15 K. Chvalovský. Undecidability of consequence relation in Full Non-associative Lambek Calculus

09:15-09:45 L. Spada, N. Bezhanishvili and N. Galatos. Canonical formulas for k-potent residuated lattices

09:45-10:15 Z. Hanikova and P. Savicky. On satisfiability of terms in FLew-algebras

Session 62E (LATD): Contributed Talks
08:45-10:15

Chair:

Location: MB, Hörsaal 15

08:45-09:15 M. Chai. Five-valued LTL for Runtime Verification

09:15-09:45 S. Aguzzoli, D. Diaconescu and T. Flaminio. A method for generalizing finite automata arising from Stone-like dualities

09:45-10:15 T. Vetterlein and A. Zamansky. An application of distance-based approximate reasoning for diagnostic questionnaires in healthcare

Session 62F (EC2): Technical session
08:45-10:15

Chair:

Location: FH, Seminarraum 101C

08:45-09:45 S. Jagannathan. Atomicity Refinement for Verified Compilation

09:45-10:15 A. Farzan, A. Holzer, N. Razavi and H. Veith. Concolic Testing of Concurrent Programs

Session 62G (PLP): Invited Talk & Welcome
08:45-10:15

Chair: C. R. Ramakrishnan

Location: FH, Seminarraum 134

08:45-08:55 N. Angelopoulos. Welcome

08:55-09:50 J. Cussens. First-order representations for integer programming

Program on Thursday, July 17th

09:50-10:15 D. Van Daele, A. Kimmig and L. De Raedt. PageRank, ProPPR and Stochastic Logic Programs

Session 62H (VEMDP)

08:45-10:15

Chair:

Location: FH, Seminarraum 136

08:45-09:00 M. Kwiatkowska. Opening remarks

09:00-09:50 A. Phillips. Computational design of DNA strand displacement systems

09:50-10:15 C. Grun, K. Sarma, B. Wolfe, S.W. Shin and E. Winfree. A domain-level DNA strand displacement reaction enumerator allowing arbitrary non-pseudoknotted secondary structures

Session 62I (NMR): Contributed Talks: Uncertainty 1

08:45-10:15

Chair:

Location: EI, EI 9

08:45-09:15 D. Schwartz. Nonmonotonic Reasoning as a Temporal Activity

09:15-09:45 M. Nickles and A. Mileo. Probabilistic Inductive Logic Programming based on Answer Set Programming

09:45-10:15 E. Weydert. A Plausibility Semantics for Abstract Argumentation Frameworks

Session 62J (ICLP): Summer School on Computational Logic: Constraint Logic Programming I

08:45-10:15

Chair:

Location: Seminarraum 1/3 OPG

08:45-08:50 G. Gupta. Summer School Opening

08:50-10:15 R. Bartak. Constraint Logic Programming I

Session 63 (LFMTP): Technical Session

08:50-10:15

Chair: Kaustuv Chaudhuri

Location: FH, Zeichensaal 1

08:50-09:00 B. Pientka. Welcome Remarks

09:00-09:25 I. Cervesato. Proof-Theoretic Foundations of Indexing in Logic Programming

09:25-09:50 T. Brock-Nannestad, N. Guenot, A. Murawska and C. Schürmann. Hybrid Extensions in a Logical Framework

Program on Thursday, July 17th

09:50-10:15 J. Boyland and T. Zhao. Variable Arity for LF

Session 64A (HCVS): Opening + Invited Talk 1

09:00-10:15

Chair:

Location: FH, Seminarraum 134A

09:00-10:00 D. Kröning. Invited talk: Proof and Refutations for Horn-clause Encodings of Reachability Problems

Session 64B (REORDER)

09:00-10:15

Chair:

Location: FH, Hörsaal 4

09:00-10:15 M. Tautschnig. Digging deeper: mole looking for potential weak memory related bugs in Debian

Session 64C (PAS): Opening + Invited Talk by Viorica Sofronie-Stokkermans

09:00-10:15

Chair:

Location: FH, Seminarraum 138A

09:00-10:00 V. Sofronie-Stokkermans. Hierarchical reasoning and quantifier elimination for the verification of parametric reactive and hybrid systems

Session 64D (NLCS): Invited talk: Laure Vieu

09:00-10:15

Chair: Christian Retore

Location: FH, CAD 2

09:00-10:00 L. Vieu. TBA

Session 64E (SMT): Welcome and Invited Talk

09:00-10:15

Chair: Philipp Rümmer

Location: FH, Seminarraum 104

09:00-09:15 P. Rümmer. Welcome

Program on Thursday, July 17th

09:15-10:15 C. Barrett. SMT: Where do we go from here?

Session 65A (NSV): NSV Invited Talk: Jean-Michel Muller
09:15-10:15

Chair: Olivier Bouissou

Location: FH, Hörsaal 2

09:15-10:05 J.-M. Muller. Getting tight error bounds in floating-point arithmetic: illustration with complex functions, and the real x^n function

Session 65B (LC): Invited talk
09:15-10:15

Chair:

Location: MB, Prechtlsaal

09:15-10:15 B. Miller. Definable cardinals just beyond \mathbb{R} / \mathbb{Q}

Session 65C (UITP): UITP Invited Talk 1 (Geoff Sutcliffe: "TPTP Process Instruction Language")
09:15-10:15

Chair:

Location: FH, Seminarraum 107

09:15-10:15 G. Sutcliffe. The TPTP Process Instruction Language, with Applications

Session 65D (PSC): Invited Talk by Martín Escardó: Excluded Middle Considered as a Mathematical Problem
09:15-10:15

Chair: Peter Schuster

Location: FH, CAD 1

09:15-10:15 M. Escardo. Excluded Middle Considered as a Mathematical Problem (Invited Talk)

Session 66AA (CSL-LICS): Model Theory and Complexity
10:45-13:00

Chair: Leszek Pacholski

Location: FH, Hörsaal 1

10:45-11:15 J. Leroux, M. Praveen and G. Sutre. Hyper-Ackermannian Bounds for Pushdown Vector Addition Systems

11:15-11:45 F. Harwath, L. Heimberg and N. Schweikardt. Preservation and Decomposition Theorems for Bounded Degree Structures

11:45-12:15 S. Kikot, R. Kontchakov, V. Podolskii and M. Zakharyashev. On the Succinctness of Query Rewriting over OWL 2 QL Ontologies with Bounded Chase

12:15-12:45 K. Losemann and W. Martens. MSO Queries on Trees: Enumerating Answers under Updates

Session 66AB (CSL-LICS): Semantics and Verification
10:45-13:00

Chair: Damiano Mazza

Location: FH, Hörsaal 5

10:45-11:15 P.B. Levy and S. Staton. Transition systems over games

11:15-11:45 N. Hoshino, K. Muroya and I. Hasuo. Memoryful Geometry of Interaction: From Coalgebraic Components to Algebraic Effects

11:45-12:15 T. Tsukada and L. Ong. Compositional Higher-Order Model Checking via Omega-Regular Games over Boehm Trees

12:15-12:45 K. Mamouras. On the Hoare Theory of Monadic Recursion Schemes

Session 66AC (ITP)
10:45-13:00

Chair:

Location: FH, Hörsaal 8

10:45-11:15 R. Dockins. Formalized, effective domain theory in Coq

11:15-11:45 C. Doczkal and G. Smolka. Completeness and Decidability Results for CTL in Coq

11:45-12:15 M. Sozeau and N. Tabareau. Universe Polymorphism in Coq

12:15-12:45 G. Malecha, A. Chlipala and T. Braibant. Compositional Computational Reflection

Program on Thursday, July 17th

12:45-13:00 R. Krebbers, X. Leroy and F. Wiedijk. Formal C semantics: CompCert and the C standard

Session 66AD (RTA-TLCA)

10:45-12:45

Chair:

Location: Informatikhörsaal

10:45-11:15 C. Creus and G. Godoy. Tree Automata with Height Constraints between Brothers

11:15-11:45 K. Nakazawa and T. Nagai. Reduction System for Extensional Lambda-mu Calculus

11:45-12:15 C. Lombardi, A. Rios and R. de Vrijer. Proof terms for infinitary rewriting

12:15-12:45 R. Statman. Near semi-rings and lambda calculus

Session 66AE (ICLP): Summer School on Computational Logic: Constraint Logic Programming II

10:45-13:00

Chair:

Location: Seminarraum 1/3 OPG

10:45-13:00 R. Bartak. Constraint Logic Programming II

Session 66AF (SAT): Simplification and Solving II

10:45-11:15

Chair:

Location: FH, Hörsaal 6

10:45-11:15 D. Larraz, A. Oliveras, E. Rodríguez Carbonell and A. Rubio. Minimal-Model-Guided Approaches to Solving Polynomial Constraints and Extensions

Session 66AG (NSV): NSV Contributed Talks: Formal Methods in Numerical Programs

10:45-12:45

Chair: Sylvie Boldo

Location: FH, Hörsaal 2

10:45-11:15 G.C. Hulette, R.C. Armstrong, J.R. Mayo and J.R. Ruthruff. Theorem-Proving Analysis of Digital Control Logic Interacting with Continuous Dynamics

11:15-11:45 A. Chapoutot, N. Damouche and M. Martel. Transformation of a PID Controller for Numerical Accuracy

11:45-12:15 A. Adje. Policy iteration in finite templates domain

Session 66AH (UITP): UITP Contributed Talks (Proof Strategies, HCI Focus Groups, Proof Visualization, Term Rewriting)

10:45-13:00

Chair:

Location: FH, Seminarraum 107

10:45-11:15 G. Grov, A. Kissinger and Y. Lin. Tinker, tailor, solver, proof

11:15-11:45 S. Grebing, B. Beckert and F. Böhl. How to Put Usability into Focus: Using Focus Groups to Evaluate the Usability of Interactive Theorem Provers

11:45-12:15 T. Libal, M. Riener and M. Rukhaia. Advanced Proof Viewing in PROOFTOOL

12:15-12:45 C. Sternagel and R. Thiemann. The Certification Problem Format

Session 66AI (WST): Invited Talk and Imperative Programs

10:45-13:00

Chair:

Location: FH, Seminarraum 101B

10:45-11:45 J. Fisher. Termination of Biological Programs

11:45-12:15 N. Nishida and T. Kataoka. On Improving Termination Preservability of Transformations from Procedural Programs into Rewrite Systems by Using Loop Invariants

12:15-12:45 J. Ketema and A. Donaldson. Automatic Termination Analysis for GPU Kernels

Program on Thursday, July 17th
12:45-13:00 . Everyone. Discussion

Session 66AJ (LFMTP): Invited Talk
10:45-11:35

Chair: Andreas Abel
Location: FH, Zeichensaal 1
10:45-11:35 J. Bengtson. Session Types Meet Separation Logic

Session 66AK (CICLOPS-WLPE): Program Transformation
10:45-13:00

Chair: John Patrick Gallagher
Location: FH, Hörsaal 7
10:45-11:15 J. Jansen and G. Janssens. Refining definitions with unknown opens using XSB for IDP3
11:15-11:45 G. Nadathur and M. Southern. A Lambda Prolog Based Animation of Twelf Specifications
11:45-12:15 M.S. Chowdhury and J.-H. You. A System for Embedding Global Constraints into SAT
12:15-12:45 J.F. Morales and M.V. Hermenegildo. Towards Pre-Indexed Terms
12:45-13:00 . Everyone. Discussion

Session 66AL (HCVS): Technical Session
10:45-13:00

Chair:
Location: FH, Seminarraum 134A
10:45-13:00 . T.B.A. Please consult the program at <http://vsl2014.at/hcvs>

Session 66AM (EC2, REORDER): Technical Session
10:45-12:45

Chair:
Location: FH, Hörsaal 4
10:45-11:45 P. McKenney. Reordering and Verification in the Linux Kernel
11:45-12:15 V. Vafeiadis. Reasoning about the C/C++ Weak Memory Model

Session 66AN (PAS): Automated Debugging
10:45-12:30

Chair:
Location: FH, Seminarraum 138A
10:45-11:30 W. Li. An Attempt to Formalize Popper's Logic of Scientific Discovery
11:30-12:00 J. Luo and W. Li. A Model Theory for R-calculus without Cut
12:00-12:30 X. Chen and J. Luo. RCK: A Software Toolkit for R-calculus

Session 66AP (VSTTE): Analysis: Understanding and Explanation
10:45-13:00

Chair:
Location: FH, Zeichensaal 3
10:45-11:45 O. Grumberg. Finding Security Vulnerabilities in a Network Protocol using Parameterized Systems
11:45-12:10 L. Freitas, C.B. Jones, A. Velykis and I. Whiteside. A Model for Capturing and Replaying Proof Strategies
12:10-12:35 M. Jami and A. Ireland. A Verification Condition Visualizer

Program on Thursday, July 17th

12:35-13:00 V. Murali, N. Sinha, E. Torlak and S. Chandra. What Gives? A Hybrid Algorithm for Error Explanation

Session 66AQ (DL): Invited Talk, Contributed Talks, and Poster Announcements

10:45-13:00

Chair:

Location: EI, EI 7

10:45-11:45 M. Benedikt. Invited Talk: New Perspectives on Query Reformulation

11:45-12:10 P. Bourhis, M. Morak and A. Pieris. Acyclic Query Answering under Guarded Disjunctive Existential Rules and Consequences to DLs

12:10-12:35 M. Krötzsch and S. Rudolph. Complexities of Nominal Schemas

12:35-12:38 A. Rezaei Divroodi. Comparing the Expressiveness of Description Logics

12:38-12:41 N. Matentzoglou, B. Parsia and U. Sattler. An Empirical Investigation of Difficulty of Subsets of Description Logic Ontologies

12:41-12:44 V. Sazonau, U. Sattler and G. Brown. Predicting OWL Reasoners: Locally or Globally?

12:44-12:47 Y. Kazakov and P. Klinov. Bridging the Gap between Tableau and Consequence-Based Reasoning

12:47-12:50 T. Kotek, M. Simkus, H. Veith and F. Zuleger. Towards a Description Logic for Program Analysis: Extending ALCQIO with Reachability

12:50-12:53 P. Bourhis, M. Krötzsch and S. Rudolph. How to Best Nest Regular Path Queries

12:53-12:56 M. Homola, J. Kluka, V. Svátek and M. Vacura. Typed Higher-Order Variant of SROIQ - Why Not?

12:56-12:59 M. Lenzerini, L. Lepore and A. Poggi. Practical query answering over Hi (DL-LiteR) knowledge bases

Session 66AR (NLCS): Contributed talks to NLCS

10:45-12:45

Chair: Valeria de Paiva

Location: FH, CAD 2

10:45-11:15 R. Cooper. How to do things with types

11:15-11:45 H. Burnett. Mereological Comparatives in Delineation Semantics

11:45-12:15 N. Francez. Proof-Theoretic Semantics for intensional transitive verbs

12:15-12:45 R. Parikh. Grice, Hoare and Nash: some comments on conversational implicature

Session 66AS (LATD): Invited Talk (Miller) and Tutorial (Marra)

10:45-12:45

Chair:

Location: MB, Festsaal

10:45-11:45 D. Miller. Combining Intuitionistic and Classical Logic: a proof system and semantics

11:45-12:45 V. Marra. Tutorial 2/2: The more, the less, and the much more: An introduction to Lukasiewicz logic as a logic of vague propositions, and to its applications

Session 66AT (SMT): Program Analysis and Sets

10:45-13:00

Chair: Pascal Fontaine

Location: FH, Seminarraum 104

10:45-11:15 D.J. Fremont and S.A. Seshia. Speeding Up SMT-Based Quantitative Program Analysis

11:15-11:45 H. Palikareva and C. Cadar. Multi-solver Support in Symbolic Execution

11:45-12:15 M. Carlsson, O. Grinchtein and J. Pearson. Protocol log analysis with constraint programming

12:15-12:45 E.S.L. Lam and I. Cervesato. Reasoning About Set Comprehensions

Session 66AU (PSC): Contributed Talks: Completeness and Computation

10:45-12:15

Chair: Peter Schuster

Location: FH, CAD 1

10:45-11:30 C. Espindola and H. Forssell. Constructive completeness and exploding models

11:30-12:15 H. Herbelin and D. Ilik. Computing with Gödel's completeness theorem

Session 66AV (iPRA): Invited Talk by Orna Grumberg and Regular Talks

10:45-13:00

Chair: Georg Weissenbacher

Location: FH, Seminarraum 101A

10:45-12:00 O. Grumberg. SAT-Based Model Checking with Interpolation

12:00-12:30 N. Een, A. Legg, N. Narodytska and L. Ryzhyk. Interpolants in Two-Player Games

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12:30-13:00 C. Oh, M. Schäfer, D. Schwartz-Narbonne and T. Wies. Fault Localization using Interpolation

Session 66AW (PCCR): Opening
10:45-11:00

Chair:

Location: FH, Hörsaal 3

Session 66AX (PLP): Algorithms & Semantics
10:45-13:00

Chair: Angelika Kimmig

Location: FH, Seminarraum 134

10:45-11:15 R. Kojima and T. Sato. Prefix and infix probability computation in PRISM

11:15-11:45 J. Vlasselaer, J. Renkens, G. Van den Broeck and L. De Raedt. Compiling Probabilistic Logic Programs into Sentential Decision Diagrams

11:45-12:15 D. Shterionov and G. Janssens. cProbLog: Restricting the Possible Worlds of Probabilistic Logic Programs

12:15-12:45 E. Menezes de Moraes. Approximated Probabilistic Answer Set Programming

Session 66AY (VEMDP)
10:45-13:00

Chair:

Location: FH, Seminarraum 136

10:45-11:40 M. Hagiya. Molecular computers for molecular robots as hybrid systems

11:40-12:10 L. Qian. DNA-based circuits in well-mixed and spatially organized systems

12:10-12:35 R.F. Johnson and E. Winfree. Verifying Polymer Reaction Networks using Bisimulation

12:35-13:00 S. Konur, C. Ladroue, H. Fellermann, D. Sanassy, L. Mierla, F. Ipate, S. Kalvala, M. Gheorghe and N. Krasnogor. Modeling and Analysis of Genetic Boolean Gates Using the Infobiotics Workbench

Session 66AZ (VPT): Opening and Contributed talks
10:45-13:00

Chair:

Location: FH, Dissertantenraum E104

10:45-11:30 A. Nepeivoda. Verification of Multi-Party Ping-Pong Protocols via Program Transformation

11:30-12:15 E. De Angelis, F. Fioravanti, A. Pettorossi and M. Proietti. Program Verification using Constraint Handling Rules and Array Constraint Generalizations

12:15-13:00 A. Lisitsa and A. Nemytykh. A Note on Program Specialization. What Syntactical Properties of Residual Programs Can Reveal?

Session 66BA (NMR): Contributed Talks: Declarative Programming 1
10:45-12:15

Chair:

Location: EI, EI 9

10:45-11:15 J.P. Delgrande and K. Wang. An Approach to Forgetting in Disjunctive Logic Programs that Preserves Strong Equivalence

11:15-11:45 S. Tasharofi and E. Ternovska. Three Semantics for Modular Systems

11:45-12:15 J. Moura and C. Viegas Damásio. Generalising Modular Logic Programs

Session 67 (RCRA): Propositional Satisfiability
10:50-12:10

Chair:

Location: MB, Hörsaal 12

10:50-11:20 K. Bunte, M. Jarvisalo, J. Berg, P. Myllymäki, J. Peltonen and S. Kaski. Optimal Neighborhood Preserving Visualization by Maximum Satisfiability

11:20-11:50 A. Ignatiev, A. Morgado, J. Planes and J. Marques-Silva. Maximal Falsifiability: Definitions, Algorithms, and Applications

11:50-12:10 H. Zantema. Latin Squares with Graph Properties

Session 68A (LC): Tutorial and invited talk
11:00-13:00

Chair:

Location: MB, Prechtlsaal

11:00-12:00 A. Miquel. Tutorial on classical realizability and forcing 1

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12:00-13:00 V. Fischer. Cardinal invariants and template iterations

Session 68B (PCCR): Invited talk

11:00-12:00

Chair:

Location: FH, Hörsaal 3

11:00-12:00 S. Szeider. Fixed-Parameter Algorithms for Reasoning Problems in NP and Beyond

Session 69 (SAT): Analysis

11:15-12:45

Chair:

Location: FH, Hörsaal 6

11:15-11:45 O. Gableske. An Ising Model inspired Extension of the Product-based MP Framework for SAT

11:45-12:15 A. Bulatov and C. Wang. Approximating highly satisfiable random 2-SAT

12:15-12:45 F. Capelli, A. Durand and S. Mengel. Hypergraph Acyclicity and Propositional Model Counting

Session 70 (LFMTP): Technical Session

11:45-13:00

Chair: Andreas Abel

Location: FH, Zeichensaal 1

11:45-12:10 A. Ciaffaglione and I. Scagnetto. Internal Adequacy of Bookkeeping in Coq

12:10-12:35 A. Anand and V. Rahli. A Generic Approach to Proofs about Substitution

12:35-13:00 F. Rabe. A Framework for Implementing Logical Frameworks

Session 71 (PCCR): Contributed talks

12:00-13:00

Chair:

Location: FH, Hörsaal 3

12:00-12:30 M. Kronegger, M. Lackner, A. Pfandler and R. Pichler. A Parameterized Complexity Analysis of Generalized CP-Nets

12:30-13:00 M. Kronegger, S. Ordyniak and A. Pfandler. Backdoors to Planning

Session 72 (RCRA): Answer Set Programming

12:10-13:00

Chair:

Location: MB, Hörsaal 12

12:10-12:40 I. Tachmazidis, G. Antoniou and W. Faber. Efficient Computation of the Well-Founded Semantics over Big Data

12:40-13:00 M. Alviano, B. Cuteri and F. Ricca. Declarative Specification of Benchmark Sessions via ASP

Session 73 (NMR): Contributed Talks: Systems 1

12:15-13:00

Chair:

Location: EI, EI 9

12:15-12:37 M. Maratea, L. Pulina and F. Ricca. The Multi-engine ASP Solver ME-ASP: Progress Report

12:37-12:59 M. Alviano, C. Dodaro and F. Ricca. Preliminary Report on WASP 2

Session 74 (REORDER)

14:00-16:00

Chair:

Location: FH, Hörsaal 4

14:00-14:30 M. Doko. Reasoning about Fences in C11 Weak Memory Model

14:30-15:00 R. Meyer. Robustness against Power is PSpace-complete

15:00-15:30 J. Wickerson. Simulating, exploring and formalising the OpenCL 2.0 memory model

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15:30-16:00 D. Poetzl. Testing GPU Memory Models

Session 75AA (CSL-LICS): Models and Games

14:30-16:00

Chair: Neil Immerman

Location: FH, Hörsaal 1

14:30-15:00 W. Charatonik, E. Kieronski and F. Mazowiecki. Decidability of Weak Logics with Deterministic Transitive Closure

15:00-15:30 R. Brenguier, J.-F. Raskin and M. Sassolas. The Complexity of Admissibility in Omega-Regular Games

15:30-16:00 D. Figueira and L. Libkin. Pattern Logics and Auxiliary Relations

Session 75AB (CSL-LICS): Programming Language Semantics

14:30-16:00

Chair: James Riely

Location: FH, Hörsaal 5

14:30-15:00 N.B.B. Grathwohl, D. Kozen and K. Mamouras. KAT + B!

15:00-15:30 F. Breuvar. On the characterization of models of H^*

15:30-16:00 A. Jeffrey. Functional Reactive Types

Session 75AC (ITP)

14:30-16:00

Chair:

Location: FH, Hörsaal 8

14:30-15:00 N. Hirokawa, A. Middeldorp and C. Sternagel. A New and Formalized Proof of Abstract Completion

15:00-15:30 J.-F. Dufourd. Hypermap Specification and Certified Linked Implementation using Orbits

15:30-16:00 V. Aravantinos and S. Tahar. Implicational Rewriting Tactics in HOL

Session 75AD (RTA-TLCA): RTA/TLCA business meeting

14:30-16:00

Chair:

Location: Informatikhörsaal

Session 75AE (ICLP): Summer School on Computational Logic: Horn Clauses and Verification I

14:30-16:00

Chair:

Location: Seminarraum 1/3 OPG

14:30-16:00 A. Rybalchenko. Horn Clauses and Verification I

Session 75AF (SAT): Report on Competitions

14:30-16:00

Chair:

Location: FH, Hörsaal 6

Session 75AG (NSV): NSV Contributed Talks: Certified Numerical Computation

14:30-16:00

Chair: Matthieu Martel

Location: FH, Hörsaal 2

14:30-15:00 P. Neron. Certifying Square Root and Division Elimination

15:00-15:30 C. Spandl. Computational complexity of iterated maps on points and sets

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15:30-16:00 J. Wolff von Gudenberg and M. Nehmeier. SetBased Decorated Intervals

Session 75AH (UITP): UITP Invited Talk 2 (Enrico Tassi: "Asynchronous Processing in Coq")

14:30-15:30

Chair:

Location: FH, Seminarraum 107

14:30-15:30 E. Tassi. Asynchronous Processing of Formal Documents in Coq

Session 75AI (WST): Ranking Functions and Complexity

14:30-16:00

Chair:

Location: FH, Seminarraum 101B

14:30-15:00 C. Urban and A. Miné. To Infinity... and Beyond!

15:00-15:30 R. Rodrigues, P. Alves, F. Pereira and L. Gonnord. Real-world loops are easy to predict : a case study

15:30-16:00 M. Avanzini and B. Felgenhauer. Type Introduction for Runtime Complexity Analysis

Session 75AJ (LFMTP): Invited Talk

14:30-15:20

Chair: Brigitte Pientka

Location: FH, Zeichensaal 1

14:30-15:20 G. Nadathur. A Framework for the Verified Transformation of Functional Programs

Session 75AK (CICLOPS-WLPE): Prolog Extensions

14:30-16:00

Chair: Jael Kriener

Location: FH, Hörsaal 7

14:30-15:00 V. Bloemen, D. Diaz, M. van der Bijl and S. Abreu. Extending the Finite Domain Solver of GNU Prolog

15:00-15:30 J. Wielemaker. SWI-Prolog version 7 extensions

15:30-16:00 T. Mantadelis and R. Rocha. A Portable Prolog Predicate for Printing Rational Terms

Session 75AL (HCVS, VPT): Invited Talk

14:30-15:30

Chair:

Location: FH, Seminarraum 134A

14:30-15:30 M. Leuschel. Invited talk: Towards Constraint-Solving over Higher-Order Unbounded Datatypes using Formal Methods Tools

Session 75AM (PAS): Invited Talk by Bruno Buchberger

14:30-16:00

Chair:

Location: FH, Seminarraum 138A

14:30-15:00 B. Buchberger. The Theorema Approach to Mathematics

15:00-15:30 K. Liiva, G. Passmore and P. Jackson. A note on real quantifier elimination by virtual term substitution of unbounded degree

Session 75AN (VSTTE): Verification Frameworks and Applications

14:30-16:00

Chair:

Location: FH, Zeichensaal 3

14:30-14:55 S. Divakaran, D. D'Souza and N. Sridhar. Efficient Refinement Checking in VCC

14:55-15:20 M. Clochard, J.-C. Filliatre, C. Marché and A. Paskevich. Formalizing Semantics with an Automatic Program Verifier

15:20-15:45 W. Ahrendt, B. Beckert, D. Bruns, R. Bubel, C. Gladisch, S. Grebing, R. Hähnle, M. Hentschel, V. Klebanov, W. Mostowski, C. Scheben, P. Schmitt and M. Ulbrich. The KeY Platform for Verification and Analysis of Java Programs

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15:45-16:00 R. Neumann. Using Promela in a Fully Verified Executable LTL Model Checker (SHORT)

Session 75AP (DL): Contributed Talks and Poster Announcements

14:30-16:00

Chair:

Location: EI, EI 7

14:30-14:55 D. Carral, C. Feier, A. Armas Romero, B. Cuenca-Grau, P. Hitzler and I. Horrocks. Is Your Ontology as Hard as You Think? Rewriting Ontologies into Simpler DLs

14:55-15:20 B. Glimm, Y. Kazakov, T. Liebig, T.-K. Tran and V. Vialard. Abstraction Refinement for Ontology Materialization

15:20-15:45 D. Calvanese, T. Kotek, M. Simkus, H. Veith and F. Zuleger. Shape and Content: Incorporating Domain Knowledge into Shape Analysis

15:45-15:48 L. Chang, U. Sattler and T. Gu. An ABox Revision Algorithm for the Description Logic EL_{bot}

15:48-15:51 Z. Wang, K. Wang, G. Qi, Z. Zhuang and Y. Li. Instance-driven TBox Revision in DL-Lite

15:51-15:54 Z. Zhuang, Z. Wang, K. Wang and G. Antoniou. Rational Elimination of DL-Lite TBox Axioms

15:54-15:57 L. Giordano, V. Gliozzi, N. Olivetti and G.L. Pozzato. Rational closure in SHIQ

15:57-16:00 K. Moodley, T. Meyer and U. Sattler. DIP: A Defeasible-Inference Platform for OWL Ontologies

Session 75AQ (NLCS): Invited talk: Anne Abeille, then a talk contributed to NLCS

14:30-16:00

Chair: Pedro Quaresma

Location: FH, CAD 2

14:30-15:30 A. Abeille. TBA

15:30-16:00 C. Casadio and A. Kislak-Malinowska. Computing Italian clitic and relative clauses with tupled pregroups

Session 75AR (LATD): Contributed Talks

14:30-16:00

Chair:

Location: MB, Festsaal

14:30-15:00 N. Galatos, A. Ciabattoni and R. Ramanayake. Embeddings into BiFL-algebras and conservativity

15:00-15:30 P. Jipsen. The lattice of varieties generated by small residuated lattices

15:30-16:00 J. Gispert. Quasivarieties of MV-algebras and structurally complete Lukasiewicz logics

Session 75AS (LATD): Contributed Talks

14:30-16:00

Chair:

Location: MB, Hörsaal 15

14:30-15:00 D. Eckert and F. Herzberg. Boolean-valued judgment aggregation

15:00-15:30 T. Kroupa and T. Valla. Constructing many-valued logical functions with small influence of their variables

15:30-16:00 M. Mio and A. Simpson. Coupling games for Lukasiewicz logic

Session 75AT (EC2): Technical session

14:30-16:00

Chair:

Location: FH, Seminarraum 101C

14:30-15:30 E. Yahav. Abstractions for Relaxed Memory Models

15:30-16:00 F. Hargreaves, D. Merkle and P. Schneider-Kamp. Group Communication Patterns for High Performance Computing in Scala

Session 75AU (SMT): Arrays and Polymorphism

14:30-16:00

Chair: Clark Barrett

Location: FH, Seminarraum 104

14:30-15:00 J. Christ and J. Hoenicke. Weakly Equivalent Arrays

15:00-15:30 F. Alberti, S. Ghilardi and N. Sharygina. Decision Procedures for Flat Array Properties

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15:30-16:00 R. Bonichon, D. Déharbe and C. Tavares. Extending SMT-LIB v2 with lambda-terms and polymorphism

Session 75AV (PSC): Contributed Talks: Calculus and Termination
14:30-16:00

Chair: Dieter Probst

Location: FH, CAD 1

14:30-15:15 H. Geuvers. A typed lambda-calculus with call-by-name and call-by-value iteration

15:15-16:00 S. Berardi, P. Oliva and S. Steila. Effective Bounds on the Podelski-Rybalchenko Termination Theorem

Session 75AW (iPRA): Invited Talk by Pavel Pudlak, Discussions
14:30-16:00

Chair: Georg Weissenbacher

Location: FH, Seminarraum 101A

14:30-15:45 P. Pudlak. Feasible Interpolation in Proof Systems based on Integer Linear Programming

15:45-16:00 L. Kovacs and G. Weissenbacher. Discussions

Session 75AX (PCCR): Contributed talk
14:30-15:00

Chair:

Location: FH, Hörsaal 3

14:30-15:00 R. Ramanujam and S.P. Suresh. Intuitionistic modal logics: efficient fragments and parameterized complexity

Session 75AY (PLP): Applications & Implementation
14:30-16:00

Chair: Fabrizio Riguzzi

Location: FH, Seminarraum 134

14:30-15:00 S. Abdallah and N. Gold. Exploring probabilistic grammars of symbolic music using PRISM

15:00-15:30 W. Van Ranst and J. Vennekens. An OpenCL implementation of a forward sampling algorithm for CP-logic

15:30-16:00 W. Meert, G. Van den Broeck and A. Darwiche. Lifted Inference for Probabilistic Logic Programs

Session 75AZ (VEMDP)
14:30-16:00

Chair:

Location: FH, Seminarraum 136

14:30-15:20 L. Cardelli. Morphisms of reaction networks that couple structure to function

15:20-15:45 S.W. Shin, C. Thachuk and E. Winfree. Verifying CRN Implementations: A Pathway Decomposition Approach

15:45-16:00 C. Thachuk. Lightning talks for posters/demos

Session 75BA (RCRA): Planning & Scheduling
14:30-16:00

Chair:

Location: MB, Hörsaal 12

14:30-15:00 E. Erdem, V. Patoglu and P. Schüller. A Systematic Analysis of Levels of Integration between High-Level Task Planning and Low-Level Feasibility Checks

Program on Thursday, July 17th

15:00-15:30 V. Santucci, M. Baiocchi and A. Milani. A Discrete Differential Evolution Algorithm for the Total Flowtime Flowshop Scheduling Problem

Session 75BB (NMR): Invited Talk
14:30-15:30

Chair:

Location: EI, EI 9

14:30-15:30 H. Rott. Four Floors for the Theory of Theory Change

Session 76A (LC): Invited talk
15:00-16:00

Chair:

Location: MB, Prechtlsaal

15:00-16:00 K. Eisentraeger. Generalizations of Hilbert's Tenth Problem

Session 76B (PCCR): Open problems
15:00-16:00

Chair:

Location: FH, Hörsaal 3

Session 77 (LFMTP): Technical Session
15:20-15:45

Chair: Brigitte Pientka

Location: FH, Zeichensaal 1

15:20-15:45 O. Savary Bélanger and K. Chaudhuri. Automatically Deriving Schematic Theorems for Dynamic Contexts

Session 78A (UITP): UITP Contributed Talks - (Coq)
15:30-16:00

Chair:

Location: FH, Seminarraum 107

15:30-16:00 C. Tankink. PIDE for Asynchronous Interaction with Coq

Session 78B (NMR): Contributed Talk: Declarative Programming 2
15:30-16:00

Chair:

Location: EI, EI 9

15:30-16:00 M. Slota, M. Baláz and J. Leite. On Strong and Default Negation in Logic Program Updates

Session 78C (HCVS): Technical Session
15:30-16:00

Chair:

Location: FH, Seminarraum 134A

15:30-16:00 . T.B.A. Please consult the program at <http://vsl2014.at/hcvs>

Session 79 (DL): Poster Session (with coffee break)
16:00-16:50

Chair:

Location: EI, Foyer

Session 79A (VSL): VSL Joint Award Ceremony 1
16:30-19:00

Chair: Matthias Baaz

Location: MB, Kuppelsaal

16:30-17:30 . Kurt Gödel Research Prize Fellowships Program. Foundations and Technology Competitions Award Ceremony

17:30-18:15 . Floc Olympic Games. FLoC Olympic Games Award Ceremony 1

Program on Thursday, July 17th

18:15-18:30 H. Veith. FLoC Closing Week 1

Session 80A (NSV): NSV Invited Talk: Sumit Kumar Jha
16:30-18:00

Chair: Olivier Bouissou

Location: FH, Hörsaal 2

16:30-17:20 S. Kumar Jha. Verifying Parameterized Software Models in Computational Data Science against Behavioral Specifications

Session 80B (UITP): UITP Contributed Talks - (Isabelle, IDE, Equational Reasoning)
16:30-18:00

Chair:

Location: FH, Seminarraum 107

16:30-17:00 M. Wenzel. System description: Isabelle/jEdit in 2014

17:00-17:30 F. Rabe. A Logic-Independent IDE

17:30-18:00 A. Butterfield. UTP2: Higher-Order Equational Reasoning by Pointing

Session 80C (WST): New Frontiers
16:30-18:00

Chair:

Location: FH, Seminarraum 101B

16:30-17:00 L. Hellström. Ordering Networks

17:00-17:30 . Everyone. Discussion

Session 80D (LFMTP): Invited Talk
16:30-17:20

Chair: Adam Chlipala

Location: FH, Zeichensaal 1

16:30-17:20 E. Brady. Idris: Implementing a Dependently Typed Programming Language

Session 80E (HCVS): Technical Session + Discussion
16:30-18:00

Chair:

Location: FH, Seminarraum 134A

16:30-18:00 . T.B.A. Please consult the program at <http://vsl2014.at/hcvs>

Session 80F (REORDER)
16:30-18:00

Chair:

Location: FH, Hörsaal 4

16:30-18:00 . Panel Session. Panel session

Session 80G (PAS): Program Analysis
16:30-18:30

Chair:

Location: FH, Seminarraum 138A

16:30-17:00 J. Knoop, L. Kovacs and J. Zwirchmayr. Successfully Coping with Scalability of Symbolic Analysis in Timing Analysis

17:00-17:30 S. Alves, B. Dundua, M. Florido and T. Kutsia. Confluence of Pattern-Based Calculi with Finitary Matching

17:30-18:00 D. Jiang. The Verification of Conversion Algorithms between Finite Automata

18:00-18:30 G. Stergiopoulos, P. Katsaros and D. Gritzalis. Source code profiling and classification for automated detection of logical errors

Session 80H (NLCS): Contributed talks to NLCS
16:30-18:00

Chair: Robin Cooper

Location: FH, CAD 2

16:30-17:00 J. Maršík and M. Amblard. Algebraic Effects and Handlers in Natural Language Interpretation

17:00-17:30 K. Liefke. Solving ParTEE's Temperature Puzzle in an EFL-Ontology

Program on Thursday, July 17th

17:30-18:00 M. Kanazawa and J. Shimada. Toward a Logic of Cumulative Quantification

Session 80I (LATD): Contributed Talks

16:30-18:00

Chair:

Location: MB, Festsaal

16:30-17:00 N. Galatos and R. Horcik. Densification via polynomial extensions

17:00-17:30 F. Bou. Introducing an exotic MTL-chain

17:30-18:00 R. Arthan and P. Oliva. On Pocrims and Hoops

Session 80J (LATD): Contributed Talks

16:30-18:00

Chair:

Location: MB, Hörsaal 15

16:30-17:00 R. Marrano. Ordinal foundation for Lukasiewicz semantics

17:00-17:30 P. Dellunde, À. García-Cerdaña and C. Noguera. Advances on elementary equivalence in model theory of fuzzy logics

17:30-18:00 M. Bianchi. Trakhtenbrot theorem and first-order axiomatic extensions of MTL

Session 80K (EC2): Invited talk

16:30-17:30

Chair:

Location: FH, Seminarraum 101C

16:30-17:30 S. Tasiran. Verifiable Concurrent Systems Programming: A Garbage Collector Case Study

Session 80L (PSC): Contributed Talks: Observation and Justification

16:30-18:00

Chair: Ana Sokolova

Location: FH, CAD 1

16:30-17:15 H. Basold and H.H. Hansen. Observational Equivalence for Behavioural Differential Equations

17:15-18:00 T. Yavorskaya and N. Ruhlyadko. Multi-agent justification logic

Session 80M (SMT): Discussions on demand

16:30-18:00

Chair: Christoph M. Wintersteiger

Location: FH, Seminarraum 104

Session 80N (iPRA): iPrA Regular talks

16:30-18:00

Chair: Isil Dillig

Location: FH, Seminarraum 101A

16:30-17:00 D. Toman and G. Weddell. On Enumerating Query Plans via Interpolants from Tableau Proofs (abstract)

17:00-17:30 C. Wernhard. Application Patterns of Projection/Forgetting

17:30-18:00 A. Mahdi and M. Fränzle. Generalized Craig Interpolation for Stochastic Satisfiability Modulo Theory Problems

Session 80P (CICLOPS-WLPE, PLP): Perspectives - Invited Perspectives

16:30-19:00

Chair: Nicos Angelopoulos

Location: FH, Hörsaal 7

16:30-17:00 T. Sato. A unified approach to generative and discriminative modeling

17:00-17:30 F. Riguzzi. Inference and learning for PLP

17:30-18:00 C. Ramakrishnan. TBA

18:00-18:30 W. Meert. TBA

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18:30-19:00 P. Chairs. Discussion on the implementation of PLP systems.

Session 80Q (VEMDP)

16:30-17:45

Chair:

Location: FH, Seminarraum 136

16:30-16:55 A.V. Karthik, D. Soloveichik, S. Ray, B. Sterin, A. Mishchenko, R. Brayton and J. Roychowdhury.

Boolean modelling and formal verification of tiered-rate chemical reaction networks

16:55-17:20 V. Danos. Formal mean field theories for graph rewriting

17:20-17:45 J. Krivine. Rule based modelling of DNA repair

Session 80R (NMR): Contributed Talks: Belief Change

16:30-18:30

Chair:

Location: EI, EI 9

16:30-17:00 B. Bogaerts, J. Vennekens, M. Denecker and J. Van den Bussche. Inference in the FO(C) Modelling Language

17:00-17:30 B. Bogaerts, J. Vennekens, M. Denecker and J. Van den Bussche. FO(C) and Related Modelling Paradigms

17:30-18:00 N. Creignou, O. Papini, S. Rümmele and S. Woltran. Belief merging within fragments of propositional logic

18:00-18:30 A. Hunter. Belief Revision and Trust

Session 80S (ICLP): Summer School on Computational Logic: Horn Clauses and Verification II

16:30-18:30

Chair:

Location: Seminarraum 1/3 OPG

16:30-18:30 A. Rybalchenko. Horn Clauses and Verification II

Session 81 (DL): Contributed Talks

16:50-18:30

Chair:

Location: EI, EI 7

16:50-17:15 Y. Kazakov and P. Klinov. Goal-Directed Tracing of Inferences in EL Ontologies

17:15-17:40 M. Ludwig and R. Peñaloza. Brave and Cautious Reasoning in EL

17:40-18:05 F. Baader and B. Morawska. Matching with respect to general concept inclusions in the Description Logic EL

18:05-18:30 L. Bozzato, T. Eiter and L. Serafini. Contextualized Knowledge Repositories with Justifiable Exceptions

Session 82 (LFMTP): Technical Session

17:20-18:10

Chair: Adam Chlipala

Location: FH, Zeichensaal 1

17:20-17:45 T. Altenkirch, N. Li and O. Rypacek. Some constructions on ω -groupoids

17:45-18:10 A. Tasistro, E. Copello and N. Szasz. Gentle Formalisation of Stoughton's Lambda Calculus Substitution

Session 83 (VEMDP): Poster and demo session

17:45-18:30

Chair:

Location: FH, Seminarraum 136

17:45 C. Grun. DyNAMiC Workbench: Automated design and verification of dynamic DNA nanosystems

17:45 P. Boeing, D. Nesbeth, A. Finkelstein and C.P. Barnes. An Aspect Oriented Design and Modelling Framework for Synthetic Biology

17:45 F. Dannenberg, M. Ceska, N. Paoletti and M. Kwiatkowska. Guiding the development of DNA walker systems to guarantee reliability and performance

17:45 N. Dalchau. Software tools for analysing the chemical master equation

Program on Thursday, July 17th

17:45 P. Milazzo and G. Pardini. Identification of Components and Modular Verification of Biochemical Pathways

Session 84A (CSL-LICS): LICS Business Meeting
19:00-20:00

Chair:

Location: FH, Hörsaal 1

Session 84B (DL, NMR): DL/NMR Welcome Reception
19:00-21:00

Chair:

Session 85 (ITP): ITP Steering and Program Committee Dinner
19:30-21:00

Chair:

Session 89 (VSL): VSL Student Reception 1
21:00-23:59

Chair:

Location: Transporter

Program on Friday, July 18th

Conferences:

VSL: Vienna Summer of Logic 2014
FLoC: Federated Logic Conference 2014
CAV: International Conference on Computer Aided Verification
CSF: 2014 IEEE Computer Security Foundations Symposium
CSL-LICS: Joint Meeting of the 23rd EACSL Annual Conference on Computer Science Logic and the 29th ACM/IEEE Symposium on Logic in Computer Science
ICLP: 30th International Conference on Logic Programming
IJCAR: 7th International Joint Conference on Automated Reasoning (IJCAR)
ITP: 5th International Conference on Interactive Theorem Proving
RTA-TLCA: Joint 25th International Conference on Rewriting Techniques and Applications and 12th Typed Lambda Calculi and Applications
SAT: 17th International Conference on Theory and Applications of Satisfiability Testing
LC: Logic Colloquium 2014
LATD: Logic, Algebra, and Truth Degrees 2014
DL: 27th International Workshop on Description Logics
NMR: 14th International Workshop on Non-Monotonic Reasoning
ADDCT: Automated Deduction: Decidability, Complexity, Tractability
AISS: Algorithmics of Infinite State Systems 2014
APPA: All about Proofs, Proofs for All
ASA: 7th International Workshop on Analysis of Security APIs
CHR: 11th International Workshop on Constraint Handling Rules
CICLOPS-WLPE: International Joint Workshop on Implementation of Constraint and Logic Programming Systems and Logic-based Methods in Programming Environments 2014
Coq: The 6th Coq Workshop
CSPSAT: Fourth International Workshop on the Cross-Fertilization Between CSP and SAT
EC2: 7th International Workshop on Exploiting Concurrency Efficiently and Correctly
FCS-FCC: Joint Workshop on Foundations of Computer Security and Formal and Computational Cryptography
HOPA: Higher Order Program Analysis
iPRA: Interpolation: From Proofs to Applications
ITRS: 7th Workshop on Intersection Types and Related Systems
LaSh: 4th International Workshop on Logic and Search
NLCS: Second Workshop on Natural Language and Computer Science
NLSR: Natural Language Services for Reasoners
NSV: 7th International Workshop on Numerical Software Verification
ParSearchOpt: Parallel Methods for Search & Optimization
PAS: Third International Seminar on Program Verification, Automated Debugging and Symbolic Computation
PCCR: 2nd Workshop on the Parameterized Complexity of Computational Reasoning
PSC: Proof, Structure and Computation
QED: Twenty Years of the QED Manifesto
QUANTIFY: First International Workshop on Quantification
RCRA: 21st RCRA International Workshop on "Experimental Evaluation of Algorithms for solving problems with combinatorial explosion"
SMT: 12th International Workshop on Satisfiability Modulo Theories
STAST: 4th International Workshop on Socio-Technical Aspects in Security and Trust
VPT: Second International Workshop on Verification and Program Transformation
VSTTE: Working Conference on Verified Software: Theories, Tools, and Experiments
WST: 14th International Workshop on Termination
WWV: 10th International Workshop on Automated Specification and Verification of Web Systems

Program on Friday, July 18th

VSL	VSL	FLoC	FLoC	CAV	CAV
				08:45-10:15 CAV Session 86B Tutorial: How do we get inductive invariants?	
				10:15-10:45 Coffee Break	
09:00-18:00 VSL Session 87D FLoC Olympic Games Big Screen: OWL Reasoner Evaluation (ORE 2014)	09:00-18:00 VSL Session 87E FLoC Olympic Games Big Screen: Satisfiability Modulo Theories solver competition (SMT- COMP 2014)	09:00-18:00 FLoC Session 87D FLoC Olympic Games Big Screen: OWL Reasoner Evaluation (ORE 2014)	09:00-18:00 FLoC Session 87E FLoC Olympic Games Big Screen: Satisfiability Modulo Theories solver competition (SMT- COMP 2014)	13:00-14:30 Lunch Break	09:00-18:00 CAV Session 87D FLoC Olympic Games Big Screen: OWL Reasoner Evaluation (ORE 2014)
				16:00-16:30 Coffee Break	

Program on Friday, July 18th

CAV	CSF	CSF	CSL-LICS	CSL-LICS	CSL-LICS
<p>09:00-18:00 CAV Session 87E FLoC Olympic Games Big Screen: Satisfiability Modulo Theories solver competition (SMT- COMP 2014)</p>	<p>09:00-18:00 CSF Session 87D FLoC Olympic Games Big Screen: OWL Reasoner Evaluation (ORE 2014)</p>	<p>09:00-18:00 CSF Session 87E FLoC Olympic Games Big Screen: Satisfiability Modulo Theories solver competition (SMT- COMP 2014)</p>	<p>09:00-18:00 CSL-LICS Session 87D FLoC Olympic Games Big Screen: OWL Reasoner Evaluation (ORE 2014)</p>	<p>09:00-18:00 CSL-LICS Session 87E FLoC Olympic Games Big Screen: Satisfiability Modulo Theories solver competition (SMT- COMP 2014)</p>	09:15-10:15 CSL-LICS Session 88A Invited Talk by Christoph Bessler
					10:15-10:45 Coffee Break
					10:45-13:00 CSL-LICS Session 90AA Programming Logics
					13:00-14:30 Lunch Break
					14:30-16:00 CSL-LICS Session 96AB Games and Finite Models
					16:00-16:30 Coffee Break
					16:30-17:00 CSL-LICS Session 99AC
16:30-18:00 CAV Session 99AB Tutorial: Hardware Model Checking					17:00-18:00 CSL-LICS Session 101A Ackermann Award Presentation and

Program on Friday, July 18th

CSL-LICS	CSL-LICS	ICLP	ICLP	ICLP	IJCAR
		08:45-10:15 ICLP Session 86C Summer School on Computational Logic: Probabilistic Logic Programming I			
10:15-10:45 Coffee Break					
10:45-13:00 CSL-LICS Session 90AB Proof Theory			09:00-18:00 ICLP Session 87D FLoC Olympic Games Big Screen: OWL Reasoner Evaluation (ORE 2014)	09:00-18:00 ICLP Session 87E FLoC Olympic Games Big Screen: Satisfiability Modulo Theories solver competition (SMT- COMP 2014)	09:00-18:00 IJCAR Session 87D FLoC Olympic Games Big Screen: OWL Reasoner Evaluation (ORE 2014)
13:00-14:30 Lunch Break					
14:30-16:00 CSL-LICS Session 96AC Types	14:30-16:00 CSL-LICS Session 96BF Special session: Perspectives on Induction				
16:00-16:30 Coffee Break					
				16:30-18:35 ICLP Session 99AD	

Program on Friday, July 18th

IJCAR	ITP	ITP	RTA-TLCA	RTA-TLCA	SAT
<p>09:00-18:00 IJCAR Session 87E FLoC Olympic Games Big Screen: Satisfiability Modulo Theories solver competition (SMT- COMP 2014)</p>	<p>09:00-18:00 ITP Session 87D FLoC Olympic Games Big Screen: OWL Reasoner Evaluation (ORE 2014)</p>	<p>09:00-18:00 ITP Session 87E FLoC Olympic Games Big Screen: Satisfiability Modulo Theories solver competition (SMT- COMP 2014)</p>	<p>09:00-18:00 RTA-TLCA Session 87D FLoC Olympic Games Big Screen: OWL Reasoner Evaluation (ORE 2014)</p>	<p>09:00-18:00 RTA-TLCA Session 87E FLoC Olympic Games Big Screen: Satisfiability Modulo Theories solver competition (SMT- COMP 2014)</p>	<p>09:00-18:00 SAT Session 87D FLoC Olympic Games Big Screen: OWL Reasoner Evaluation (ORE 2014)</p>

Program on Friday, July 18th

SAT	LC	LC	LC	LATD	LATD	
09:00-18:00 SAT Session 87E FLoC Olympic Games Big Screen: Satisfiability Modulo Theories solver competition (SMT- COMP 2014)	09:15-10:15 LC Session 88C Invited talk			08:45-10:15 LATD Session 86I Contributed Talks	08:45-10:15 LATD Session 86J Contributed Talks	
	10:15-10:45 Coffee Break					
	11:00-13:00 LC Session 91 Tutorial and invited talk				10:45-12:45 LATD Session 90AQ Invited Talk (Fitting) and Tutorial (Baader)	
	13:00-14:30 Lunch Break					
	14:30-16:00 LC Session 96AG Special session: Philosophy of Mathematics	14:30-16:00 LC Session 96AH Special session: Set Theory	14:30-16:00 LC Session 96BF Special session: Perspectives on Induction	14:30-16:00 LATD Session 96AS Invited Talk (Metcalf) and Contributed Talk		
	16:00-16:30 Coffee Break					
	16:30-18:00 LC Session 99AF Special session: Philosophy of Mathematics	16:30-18:00 LC Session 99AG Special session: Model Theory		16:30-18:00 LATD Session 99AR Contributed Talks	16:30-18:00 LATD Session 99AS Contributed Talks	
	18:15-19:15 LC Session 104A Contributed talks A3	18:15-19:15 LC Session 104B Contributed talks B3	18:15-19:15 LC Session 104C Contributed talks C3			

Program on Friday, July 18th

DL	NMR	ADDCT	AISS	APPA	ASA
08:45-10:15 DL Session 86M Invited Talk and Contributed Talk	08:45-10:15 NMR Session 86M Invited Talk and Contributed Talk		09:00-10:00 AISS Session 87C	09:00-10:15 APPA Session 87F Invited Tutorials (SAT- and SMT- Solvers)	08:45-09:45 ASA Session 86L Invited Speaker 09:45-10:25 ASA Session 89A Technical Session
10:15-10:45 Coffee Break					
10:45-12:00 DL Session 90AU Contributed Talks	10:45-12:00 NMR Session 90AU Contributed Talks	10:45-12:00 ADDCT Session 90BD Invited talk	10:45-12:45 AISS Session 90AJ	10:45-11:45 APPA Session 90AK Invited Tutorials (First- and Higher- order Automated Theorem Provers)	10:45-12:45 ASA Session 90AT Technical Session
12:00-13:00 DL Session 94C Contributed Talks and Poster Announcements	12:00-13:00 NMR Session 94G Contributed Talks: Benchmarks	12:00-13:00 ADDCT Session 94F Satisfiability Modulo Theories and Applications		12:00-13:00 APPA Session 94B Invited Tutorials (Interactive Theorem Provers and Calculus)	
13:00-14:30 Lunch Break					
14:30-15:50 DL Session 96AV Contributed Talks and Poster Announcements	14:30-16:00 NMR Session 96BH Contributed Talks: Argumentation 1	14:30-16:00 ADDCT Session 96BC Dynamic and Modal Logic	14:30-16:00 AISS Session 96AK	14:30-16:00 APPA Session 96AM Invited Tutorials (Foundational Proof Certificates, Deduction Modulo and Proof Analysis)	14:30-15:50 ASA Session 96AU Technical session
15:50-16:40 DL Session 98 Poster Session (with	16:00-16:30 Coffee Break				
16:40-17:30 DL Session 100 Contributed Talks	17:00-18:00 NMR Session 101B NMR Social Event		16:30-18:00 AISS Session 99AJ	16:30-18:00 APPA Session 99AL Invited Tutorials (Verification, Security and Deep Inference)	16:30-17:30 ASA Session 99BB Panel Session: The W3C Web Crypto
18:00-23:30 DL Session 103B DL/NMR Social Event and Dinner	18:00-23:30 NMR Session 103B DL/NMR Social Event and Dinner				

Program on Friday, July 18th

CHR	CICLOPS-WLPE	Coq	CSPSAT	EC2	FCS-FCC
09:00-10:15 CHR Session 87B Invited Talk	09:00-10:15 CICLOPS-WLPE Session 87B Invited Talk	08:45-10:15 Coq Session 86A New and advanced Coq features	08:45-10:15 CSPSAT Session 86H Tutorial and a contributed talk	09:15-10:15 EC2 Session 88E Invited talk	08:45-09:45 FCS-FCC Session 86L Invited Speaker 09:45-10:15 FCS-FCC Session 89B Technical Session
10:15-10:45 Coffee Break					
10:45-12:45 CHR Session 90BE Contributed Talks	10:45-12:45 CICLOPS-WLPE Session 90BE Contributed Talks	10:45-12:45 Coq Session 90AC Invited talk & useful tools	10:45-12:45 CSPSAT Session 90AP Invited talk and two contributed talks	10:45-12:15 EC2 Session 90AV Technical session 12:15-13:00 EC2 Session 95 Discussion	10:45-11:45 FCS-FCC Session 90AZ Invited Speaker 12:00-13:00 FCS-FCC Session 94D Technical Session
13:00-14:30 Lunch Break					
14:30-16:00 CHR Session 96AL Invited Talk	14:30-16:00 CICLOPS-WLPE Session 96AL Invited Talk	14:30-16:00 Coq Session 96AA Formalizations in Coq			14:30-16:00 FCS-FCC Session 96AZ Technical Session
16:00-16:30 Coffee Break					
16:30-18:00 CHR Session 99AK Implementation Issues	16:30-18:00 CICLOPS-WLPE Session 99AK Implementation Issues	16:30-18:00 Coq Session 99AA New IDEs & Coq 8.5 update			16:30-18:00 FCS-FCC Session 99AV Technical Session

Program on Friday, July 18th

HOPA	iPRA	ITRS	LaSh	NLCS	NLSR
		09:00-09:15 ITRS			
09:15-10:15 HOPA Session 88J Invited Talk: Matching Logic	09:00-10:15 iPRA Session 87G Invited Talk by Frank Wolter	09:15-10:15 ITRS Session 88B Invited talk	08:45-10:15 LaSh Session 86G Opening and Invited Talk	09:00-10:15 NLCS Session 87H Invited talk: Aarne Ranta	09:00-10:15 NLSR Session 87H Invited talk: Aarne Ranta
10:15-10:45 Coffee Break					
10:45-12:45 HOPA Session 90BH Invited Talk 2 and Submitted Talks: Javascript and Concurrency	10:45-13:00 iPRA Session 90AY iPrA Regular Talks	10:45-11:45 ITRS Session 90AG	10:45-13:00 LaSh Session 90AN LaSh morning 2: Contributed Talks		10:45-11:45 NLSR Session 90AR Contributed talks to NLSR
		11:45-12:00 ITRS		11:45-12:45 NLCS Session 93B talks after an invited NLCS/NLSR lecture	
		12:00-13:00 ITRS Session 94A			
13:00-14:30 Lunch Break					
14:30-16:00 HOPA Session 96BI Abstract Interpretation and Linear Logic	14:30-16:00 iPRA Session 96AY iPrA Regular Talks	14:30-15:30 ITRS Session 96AF	14:30-16:10 LaSh Session 96AQ LaSh afternoon 1: Invited Talks - Lazy Grounding	14:30-16:00 NLCS Session 96AR NLCS contributed talks	
16:00-16:30 Coffee Break					
	16:30-18:00 iPRA Session 99AU iPrA Regular Talks, Discussions, Closing	16:30-17:30 ITRS Session 99AE	16:30-18:00 LaSh Session 99AP LaSh afternoon 2: Invited Talks - Answer Set Programming	16:30-18:00 NLCS Session 99AQ NLCS contributed talks	
		17:30-17:45 ITRS			

Program on Friday, July 18th

NSV	ParSearchOpt	PAS	PCCR	PSC	QED
08:45-10:15 NSV Session 86D CAV Tutorial: How do we get inductive invariants?	08:45-10:15 ParSearchOpt Session 86K Workshop Opening and Invited Talk	09:15-10:15 PAS Session 88D Invited Talk by Hoon Hong	09:15-10:15 PCCR Session 88H Invited talk	09:15-10:15 PSC Session 88G Invited Talk by Ulrich Berger (joint work with Tie Hou): Program Extraction in Church's Simple Theory of Types	09:00-10:15 QED Session 87J
10:15-10:45 Coffee Break					
10:45-12:45 NSV Session 90AF CAV Tutorial: How do we get inductive invariants?	10:45-13:00 ParSearchOpt Session 90AS	10:45-12:45 PAS Session 90AL Symbolic Computation	10:45-11:45 PCCR Session 90BA Contributed talks 12:00-12:30 PCCR Session 94E	10:45-12:15 PSC Session 90AX Contributed Talks: Extracting Parsers and Ancestral Logic	10:45-13:00 QED Session 90BG
13:00-14:30 Lunch Break					
14:30-16:00 NSV Session 96BD Special Session: Decidability with Numerical Methods	14:30-16:00 ParSearchOpt Session 96AT Talk and Panel Discussion	14:30-16:00 PAS Session 96AN Invited Talk by Michael Rusinowitch	14:30-15:30 PCCR Session 96BA Invited talk 15:30-16:00 PCCR Session 97	14:30-16:00 PSC Session 96AX Contributed Talks: Proof Search and Proof Relevance	14:30-16:00 QED Session 96BE
16:00-16:30 Coffee Break					
16:30-18:00 NSV Session 99AY NSV Invited Talk: Jim Kapinski		16:30-18:10 PAS Session 99AM Program Verification	16:30-17:30 PCCR Session 99AW PCCR panel 17:30-17:45 PCCR		16:30-18:00 QED Session 99AZ
18:15-18:45 QED Session 104D					

Program on Friday, July 18th

QUANTIFY	RCRA	SMT	STAST	VPT	VSTTE
08:45-10:15 QUANTIFY Session 86G Opening and Invited Talk			08:45-09:00 STAST	08:45-10:15 VPT Session 86P Invited speaker (A. Rybalchenko)	08:45-10:15 VSTTE Session 86F Hypervisors and dynamic data structures
	09:15-10:15 RCRA Session 88I Constraints	09:15-10:15 SMT Session 88F Invited Talk	09:00-10:15 STAST Session 87I Keynote Talk		
10:15-10:45 Coffee Break					
10:45-13:00 QUANTIFY Session 90AI EPR, QBF, and QCSP	10:45-11:15 RCRA Session 90BC Constraints (continued)	10:45-13:00 SMT Session 90AW Arithmetic	10:45-13:00 STAST Session 90BB Security Ceremonies and Policies	10:45-13:00 VPT Session 90BF Contributed Talks	10:45-13:00 VSTTE Session 90AM Certification
	11:20-13:00 RCRA Session 92 Heuristic, randomised and probabilistic approaches				
13:00-14:30 Lunch Break					
14:30-16:00 QUANTIFY Session 96AJ QBF and First-Order Logic		14:30-16:00 SMT Session 96AW SMT-COMP and SMT-EVAL Presentations	14:30-16:00 STAST Session 96BB Security and Human Behaviour	14:30-16:00 VPT Session 96BG Invited talk by Josep Silva	14:30-16:00 VSTTE Session 96AP Real Time and Security
16:00-16:30 Coffee Break					
16:30-18:00 QUANTIFY Session 99AI Satisfiability Modulo Theories		16:30-18:00 SMT Session 99AT SMT-LIB Discussion and Business Meeting	16:30-18:00 STAST Session 99AX Socio-Technical Security		16:30-18:00 VSTTE Session 99AN Verified Software Competition (VSCOMP 2014)
				17:30-18:00 VPT Session 102C	
18:00-18:10					

Program on Friday, July 18th

WST	WWV
08:45-10:15 WST Session 86E Fairness and Liveness	
10:15-10:45 Coffee Break	
10:45-13:00 WST Session 90AH SAT Encodings and Semantic Labelling	
13:00-14:30 Lunch Break	
14:30-16:00 WST Session 96AI Term Rewriting Revisited	14:30-16:00 WWV Session 96BG Invited talk by Josep Silva
16:00-16:30 Coffee Break	
16:30-18:00 WST Session 99AH Discussion and Business Meeting	16:30-18:00 WWV Session 99BA Joint session with VPT: Web systems

Program on Friday, July 18th

Session 86A (Coq): New and advanced Coq features

08:45-10:15

Chair: Viktor Vafeiadis

Location: MB, Hörsaal 14A

08:45-09:15 J. Gross. Presentation of Three Neat Tricks in Coq 8.5

09:15-09:45 B. Zilliani and M. Sozeau. Towards a better-behaved unification algorithm for Coq

09:45-10:15 M. Sozeau. Proof-relevant rewriting strategies in Coq

Session 86B (CAV): Tutorial: How do we get inductive invariants?

08:45-10:15

Chair: Armin Biere

Location: FH, Hörsaal 6

08:45-10:15 D. Monniaux. How do we get inductive invariants? (Part A)

Session 86C (ICLP): Summer School on Computational Logic: Probabilistic Logic Programming I

08:45-10:15

Chair:

Location: Seminarraum 1/3 OPG

08:45-08:50 G. Gupta. Summer School Opening

08:50-10:15 C. Ramakrishnan. Probabilistic Logic Programming I

Session 86D (NSV): CAV Tutorial: How do we get inductive invariants?

08:45-10:15

Chair:

Location: FH, Hörsaal 2

Session 86E (WST): Fairness and Liveness

08:45-10:15

Chair:

Location: FH, Seminarraum 101B

08:45-09:15 B. Cook, H. Khlaaf and N. Piterman. Fairness for Infinite-State Systems

09:15-09:45 B. Cook, S. Magill, M. Parkinson and T. Stroeder. Reducing Deadlock and Livelock Freedom to Termination

09:45-10:15 N. Preining, K. Ogata and K. Futatsugi. Specifying and verifying liveness properties of QLOCK in CafeOBJ

Session 86F (VSTTE): Hypervisors and dynamic data structures

08:45-10:15

Chair:

Location: FH, Zeichensaal 3

08:45-09:10 M. Kovalev, E. Cohen and G. Chen. Store Buffer Reduction with MMUs

09:10-09:35 D. Sanan, A. Butterfield and M. Hinchey. Separation Kernel Verification: the XtratuM Case Study

09:35-10:00 R. Krebbers. Separation algebras for C verification in Coq

10:00-10:15 M. Clochard. Automatically verified implementation of data structures based on AVL trees (SHORT)

Session 86G (LaSh, QUANTIFY): Opening and Invited Talk

08:45-10:15

Chair: Emilia Oikarinen

Location: MB, Aufbaulabor

08:45-09:00 . Lash and . Quantify. LaSh and QUANTIFY Openings

09:00-10:00 K. Korovin. Instantiation-based reasoning, EPR encodings and all that

Session 86H (CSPSAT): Tutorial and a contributed talk

08:45-10:15

Chair:

Location: MB, Zeichensaal 15

08:45-09:45 E. Giunchiglia. Tutorial (tentative): TBA

Program on Friday, July 18th

09:45-10:15 A. Bau. SAT Compilation for Constraints over Finite Structured Domains

Session 86I (LATD): Contributed Talks

08:45-10:15

Chair:

Location: MB, Festsaal

08:45-09:15 J. Raftery. Relatively filtral quasivarieties

09:15-09:45 J.M. Font and T. Moraschini. On logics of varieties and logics of semilattices

09:45-10:15 R. Jansana. Congruential deductive systems associated with equationally orderable varieties

Session 86J (LATD): Contributed Talks

08:45-10:15

Chair:

Location: MB, Hörsaal 15

08:45-09:15 K. Mruczek-Nasieniewska. Semantical and syntactical characterisation of some extensions of the class of MV-algebras

09:15-09:45 V. Marra, D. McNeill and A. Pedrini. The space of directions of a polyhedron

09:45-10:15 V. Marra, D. McNeill and A. Pedrini. Interpreting Lukasiewicz logic into Intuitionistic logic

Session 86K (ParSearchOpt): Workshop Opening and Invited Talk

08:45-10:15

Chair:

Location: MB, Hörsaal 4

08:45-09:45 H. Schichl. Invited Talk

Session 86L (ASA, FCS-FCC): Invited Speaker

08:45-09:45

Chair: Matteo Maffei

Location: MB, Hörsaal 7

08:45-09:45 G. Steel. Cryptosense: Formal Analysis of Security APIs from Research to Spin-Off

Session 86M (DL, NMR): Invited Talk and Contributed Talk

08:45-10:15

Chair:

Location: EI, EI 7

08:45-09:45 P. Blackburn. Invited Talk: Fragments of Logic, Language, and Computation

09:45-10:15 O. Fernandez Gil. On the Non-Monotonic Description Logic ALC+Tmin

Session 86N (STAST): Workshop Opening

08:45-09:00

Chair:

Location: MB, Seminarraum 212/232

Session 86P (VPT): Invited speaker (A. Rybalchenko)

08:45-10:15

Chair:

Location: FH, Dissertantenraum E104

08:45-09:45 K. von Gleissenthall, A. Rybalchenko and S. Zanella-Béguelin. Towards Automated Proving of Relational Properties of Probabilistic Programs (Invited Talk)

Session 87A (ITRS): Workshop opening

09:00-09:15

Chair: Jakob Rehof

Location: MB, Zeichensaal 14

Program on Friday, July 18th

Session 87B (CHR, CICLOPS-WLPE): Invited Talk
09:00-10:15

Chair: Remy Haemmerle
Location: FH, Hörsaal 7
09:00-10:00 M. Bezem. Coherent Logic and Applications

Session 87C (AISS)
09:00-10:00

Chair:
Location: FH, Seminarraum 134
09:00-10:00 J. Ouaknine. Decision Problems for Linear Recurrence Sequences

Session 87D (CAV, CSF, CSL-LICS, FLoC, ICLP, IJCAR, ITP, RTA-TLCA, SAT, VSL): FLoC Olympic Games Big Screen: OWL Reasoner Evaluation (ORE 2014)
09:00-18:00

Chair:
Location: EI, Foyer
09:00-18:00 B. Glimm, N. Matentzoglou, B. Parsia and A. Steigmiller. FLoC Olympic Games Big Screen: OWL Reasoner Evaluation (ORE 2014)

Session 87E (CAV, CSF, CSL-LICS, FLoC, ICLP, IJCAR, ITP, RTA-TLCA, SAT, VSL): FLoC Olympic Games Big Screen: Satisfiability Modulo Theories solver competition (SMT-COMP 2014)
09:00-18:00

Chair:
Location: FH, 2nd floor
09:00-18:00 D. Cok, D. Deharbe and T. Weber. FLoC Olympic Games Big Screen: Satisfiability Modulo Theories solver competition (SMT-COMP 2014)

Session 87F (APPA): Invited Tutorials (SAT- and SMT-Solvers)
09:00-10:15

Chair:
Location: FH, Seminarraum 325/1
09:00-09:30 M. Heule. Satisfiability Solvers
09:30-10:15 C. Barrett, P. Fontaine and L. De Moura. Proofs in Satisfiability Modulo Theories

Session 87G (iPRA): Invited Talk by Frank Wolter
09:00-10:15

Chair: Georg Weissenbacher
Location: FH, Seminarraum 101A
09:00-10:15 F. Wolter. Interpolation in Description Logic: A Survey

Session 87H (NLCS, NLSR): Invited talk: Aarne Ranta
09:00-10:15

Chair:
Location: FH, CAD 2
09:00-10:00 A. Ranta. Machine Translation: Green, Yellow, and Red (abstract)

Session 87I (STAST): Keynote Talk
09:00-10:15

Chair:
Location: MB, Seminarraum 212/232
09:00-10:15 L. Coventry. Tackling the Awareness-Behaviour Divide in Security: (step 1) Understand the User

Session 87J (QED)
09:00-10:15

Chair:
Location: FH, Hörsaal 4
09:00-09:35 J. Harrison. QED: a grand unified theory?

Program on Friday, July 18th

09:35-10:15 G. Gonthier. How to prove the odd order from the four color theorem

Session 88A (CSL-LICS): Invited Talk by Christel Baier

09:15-10:15

Chair: Catuscia Palamidessi

Location: FH, Hörsaal 1

09:15-10:15 C. Baier, C. Dubslaff and S. Klueppelholz. Trade-Off Analysis Meets Probabilistic Model Checking

Session 88B (ITRS): Invited talk

09:15-10:15

Chair: Jakob Rehof

Location: MB, Zeichensaal 14

09:15-10:15 L. Ong. Intersection Types, Game Semantics and Higher-Order Model Checking

Session 88C (LC): Invited talk

09:15-10:15

Chair:

Location: MB, Prechtlsaal

09:15-10:15 M. Reynolds. Synthesis for monadic logic over the reals

Session 88D (PAS): Invited Talk by Hoon Hong

09:15-10:15

Chair:

Location: FH, Seminarraum 138A

09:15-10:15 H. Hong. Test-Input Generation using Computational Real Algebraic Geometry

Session 88E (EC2): Invited talk

09:15-10:15

Chair:

Location: FH, Seminarraum 101C

09:15-10:15 K. Vaswani. Does Wait-Freedom Matter?

Session 88F (SMT): Invited Talk

09:15-10:15

Chair: Christoph M. Wintersteiger

Location: FH, Seminarraum 104

09:15-10:15 G. Melquiond. Automating the verification of floating-point algorithms

Session 88G (PSC): Invited Talk by Ulrich Berger (joint work with Tie Hou): Program Extraction in Church's Simple Theory of Types

09:15-10:15

Chair: Dirk Pattinson

Location: FH, CAD 1

09:15-10:15 U. Berger and T. Hou. Program extraction in Church's simple theory of types (invited talk)

Session 88H (PCCR): Invited talk

09:15-10:15

Chair:

Location: FH, Hörsaal 3

09:15-10:15 D. Marx. CSPs and fixed-parameter tractability

Session 88I (RCRA): Constraints

09:15-10:15

Chair:

Location: MB, Hörsaal 12

09:15-09:45 A. Kamal, H. Zineb and A.-M. Wassila. A compression algorithm to improve generalized hypertree decomposition-based solving approaches for large extensional non binary CSP

Program on Friday, July 18th

09:45-10:15 E. Freuder, D. Grimes and R. Wallace. Dispensable Instantiations in Constraint Satisfaction Problems

Session 88J (HOPA): Invited Talk: Matching Logic

09:15-10:15

Chair:

Location: FH, Seminarraum 138C

09:15-10:15 G. Rosu. TBA

Session 89A (ASA): Technical Session

09:45-10:25

Chair:

Location: MB, Zeichensaal 13

09:45-10:25 P. Svenda. Nuances of the JavaCard API on the cryptographic smart cards - JCAIlgTest project

Session 89B (FCS-FCC): Technical Session

09:45-10:15

Chair: Limin Jia

Location: MB, Hörsaal 7

09:45-10:15 J.D. Ramsdell, D. Dougherty, J. Guttman and P.D. Rowe. A Hybrid Analysis for Security Protocols with State

Session 90AA (CSL-LICS): Programming Logics

10:45-13:00

Chair: Krishnendu Chatterjee

Location: FH, Hörsaal 1

10:45-11:15 C. Haase. Subclasses of Presburger Arithmetic and the Weak EXP Hierarchy

11:15-11:45 M. Bernardo, D. Sangiorgi and V. Vignudelli. On the Discriminating Power of Passivation and Higher-Order Interaction

11:45-12:15 E. Asarin, M. Bockolet, A. Degorre, C. Dima and C. Mu. Asymptotic behaviour in temporal logic

12:15-12:45 C. Baier, J. Klein, S. Klueppelholz and S. Wunderlich. Weight Monitoring with Linear Temporal Logic: Complexity and Decidability

Session 90AB (CSL-LICS): Proof Theory

10:45-13:00

Chair: Simona Ronchi Della Rocca

Location: FH, Hörsaal 5

10:45-11:15 M. Perrinel. On Context Semantics for Interaction Nets

11:15-11:45 U. Dal Lago, C. Faggian, I. Hasuo and A. Yoshimizu. The Geometry of Synchronization

11:45-12:15 T. Ehrhard. A new correctness criterion for MLL proof nets

12:15-12:45 R. Lazić and S. Schmitz. Non-Elementary Complexities for Branching VASS, MELL, and Extensions

Session 90AC (Coq): Invited talk & useful tools

10:45-12:45

Chair: Matthieu Sozeau

Location: MB, Hörsaal 14A

10:45-11:45 D. Licata. What is Homotopy Type Theory?

11:45-12:15 M. Dénès, C. Hritcu, L. Lampropoulos, Z. Paraskevopoulou and B.C. Pierce. QuickChick: Property-Based Testing for Coq

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12:15-12:45 J. Heras and E. Komendantskaya. Proof-Pattern Search in Coq/SSReflect

Session 90AD (CAV): Tutorial: How do we get inductive invariants?
10:45-12:15

Chair: Armin Biere

Location: FH, Hörsaal 6

10:45-12:15 D. Monniaux. How do we get inductive invariants? (Part B)

Session 90AE (ICLP): Summer school on Computational Logic: Probabilistic Logic Programming II
10:45-13:00

Chair:

Location: Seminarraum 1/3 OPG

10:45-13:00 C. Ramakrishnan. Probabilistic Logic Programming II

Session 90AF (NSV): CAV Tutorial: How do we get inductive invariants?
10:45-12:45

Chair:

Location: FH, Hörsaal 2

Session 90AG (ITRS)
10:45-11:45

Chair: Jakob Rehof

Location: MB, Zeichensaal 14

10:45-11:15 R. Statman. A Finite Model Property for Intersection Types

11:15-11:45 M. Coppo, M. Dezani-Ciancaglini, I. Margaria and M. Zacchi. On Isomorphism of "Functional" Intersection and Union Types

Session 90AH (WST): SAT Encodings and Semantic Labelling
10:45-13:00

Chair:

Location: FH, Seminarraum 101B

10:45-11:15 H. Zankl, S. Winkler and A. Middeldorp. Automating Elementary Interpretations

11:15-11:45 H. Sato and S. Winkler. A Satisfiability Encoding of Dependency Pair Techniques for Maximal Completion

11:45-12:15 A. Bau, R. Thiemann and J. Waldmann. Automated SAT Encoding for Termination Proofs with Semantic Labelling and Unlabelling

12:15-12:45 A. Geser. A Solution to Endrullis-08 and Similar Problems

12:45-13:00 . Everyone. Discussion

Session 90AI (QUANTIFY): EPR, QBF, and QCSP
10:45-13:00

Chair:

Location: FH, Seminarraum 136

10:45-11:30 U. Egly. Quantifier handling in calculi for quantified Boolean formulas

11:30-12:00 M. Cashmore, M. Fox and E. Giunchiglia. Encoding Reachability with Quantification

12:00-12:30 G. Kovásznai, A. Fröhlich and A. Biere. EPR Encodings of Bit-Vector Problems Even With Quantifiers

12:30-13:00 H. Chen. Beyond Q-Resolution and Prenex Form: A Proof System for Quantified Constraint Satisfaction

Session 90AJ (AISS)
10:45-12:45

Chair:

Location: FH, Seminarraum 134

10:45-11:15 B. Aminof, T. Kotek, S. Rubin, F. Spegni and H. Veith. Parameterized Model Checking of Rendezvous Systems

11:15-11:45 R. Mennicke. Model Checking Communicating Finite-State Machines using Local Temporal Logics

11:45-12:15 D. Chistikov and R. Majumdar. Unary Pushdown Automata and Straight-Line Programs

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12:15-12:45 G. Zetsche. Of stacks (of stacks (...)) with blind counters) with blind counters

Session 90AK (APPA): Invited Tutorials (First- and Higher-order Automated Theorem Provers)

10:45-11:45

Chair:

Location: FH, Seminarraum 325/1

10:45-11:15 S. Schulz. First-Order Automated Theorem Provers

11:15-11:45 C. Benz Müller. Higher-Order Automated Theorem Provers

Session 90AL (PAS): Symbolic Computation

10:45-12:45

Chair:

Location: FH, Seminarraum 138A

10:45-11:15 I. Dramnesc. Synthesis of Algorithms on Sets Represented as Monotone Lists

11:15-11:45 A. Letichevsky, O. Letychevskiy, V. Peschanenko and T. Weigert. New predicate transformer for symbolic modeling

11:45-12:15 H. Huang, F. Song, Z. Qian, K. Li, J. Chen, S. Guan and W. Huang. VTOS: A Finite State Machine Model of OS and Formalized Verification of Its Microkernel

12:15-12:45 J. Praher. Symbolic Problem Solving With Bidirectional Executable Representations

Session 90AM (VSTTE): Certification

10:45-13:00

Chair:

Location: FH, Zeichensaal 3

10:45-11:45 M. Whalen. Up and Out: Scaling Formal Analysis Using Model-Based Development and Architecture Modeling

11:45-12:10 A. Banerjee and D. Naumann. A logical analysis of framing for specifications with pure method calls

12:10-12:35 A. Foulhe and S. Boulmé. A certifying frontend for (sub)polyhedral abstract domains

12:35-13:00 J. Nagele, R. Thiemann and S. Winkler. Certification of Nontermination Proofs using Strategies and Nonlooping Derivations

Session 90AN (LaSh): LaSh morning 2: Contributed Talks

10:45-13:00

Chair: David Mitchell

Location: MB, Aufbaulabor

10:45-11:15 B. Bogaerts, J. Jansen, B. De Cat, G. Janssens, M. Bruynooghe and M. Denecker. Meta-level Representations in the IDP Knowledge Base System: Bootstrapping Inference Engine Development

11:15-11:45 S. Tasharofi and E. Ternovska. Logical Machinery of Heuristics (Preliminary Report)

11:45-12:15 E. Demirović and N. Musliu. Modeling High School Timetabling as PartialWeighted maxSAT

12:15-12:45 J. Berg, M. Järvisalo and B. Malone. Learning Optimal Bounded Treewidth Bayesian Networks via Maximum Satisfiability

12:45-13:00 . Lash. Depart for Workshop Lunch

Session 90AP (CSPSAT): Invited talk and two contributed talks

10:45-12:45

Chair:

Location: MB, Zeichensaal 15

10:45-11:45 F. Bacchus. Invited talk: MaxSat and SoftCSPs

11:45-12:15 E.M. Achref, P. Jegou, C. Terrioux and B. Zanuttini. Some New Tractable Classes of CSPs and their Relations with Backtracking Algorithms

12:15-12:45 J. Devriendt, B. Bogaerts and M. Bruynooghe. BreakIDGlucose: on the importance of row symmetry

Session 90AQ (LATD): Invited Talk (Fitting) and Tutorial (Baader)

10:45-12:45

Chair:

Location: MB, Festsaal

10:45-11:45 M. Fitting. The Range of Realization Which modal logics have explicit counter parts

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11:45-12:45 F. Baader. Tutorial: Fuzzy Description Logics (Part 1)

Session 90AR (NLSR): Contributed talks to NLSR

10:45-11:45

Chair:

Location: FH, CAD 2

10:45-11:15 J. Van Grondelle, C. Unger and F. Smit. Exposing Predictive Analytics through Natural Language Dialog

11:15-11:45 C. Condoravdi, K. Richardson, V. Sikka, A. Suenbuel and R. Waldinger. Natural Language Access to Data

Session 90AS (ParSearchOpt)

10:45-13:00

Chair:

Location: MB, Hörsaal 4

10:45-11:15 L. Guo, S. Jabbour, J. Lonlac and L. Sais. A Portfolio Based Parallel SAT Solver with Multiple Deletion Strategies

11:15-11:45 S. Abreu, D. Munera and D. Diaz. Towards a Parallel Hierarchical Adaptive Solver Tool

11:45-12:15 A. Arbelaez, C. Truchet and P. Codognot. On the Parallelization of Randomized Propagation-based Constraint Solving

12:15-12:45 A. Arbelaez, D. Mehta, B. O'Sullivan and L. Quesada. A Constraint-based Parallel Local Search for Disjoint Rooted Distance-Constrained Minimum Spanning Tree Problem

Session 90AT (ASA): Technical Session

10:45-12:45

Chair:

Location: MB, Zeichensaal 13

10:45-11:25 G. French. Banking security Wish list: notes from the edge

11:25-12:05 T. Braibant, J. Protzenko and G. Scherer. Well-typed generic smart-fuzzing for APIs

12:05-12:45 J. Hertl. Caetus tool

Session 90AU (DL, NMR): Contributed Talks

10:45-12:00

Chair:

Location: EI, EI 7

10:45-11:10 T. Eiter, M. Fink and D. Stepanova. Towards Practical Deletion Repair of Inconsistent DL-programs

11:10-11:35 W. Qiao and N. Roos. An Argumentation System for Reasoning with Conflict-minimal Paraconsistent ALC

11:35-12:00 C. Bourgaux, M. Bienvenu and F. Goasdoué. Querying Inconsistent Description Logic Knowledge Bases under Preferred Repair Semantics

Session 90AV (EC2): Technical session

10:45-12:15

Chair:

Location: FH, Seminarraum 101C

10:45-11:45 E. Petrank. Wait-Freedom Made Practical

11:45-12:15 A. Desai, P. Garg and P. Madhusudan. A new reduction for event-driven distributed programs

Session 90AW (SMT): Arithmetic

10:45-13:00

Chair: Martin Brain

Location: FH, Seminarraum 104

10:45-11:15 T. King, C. Barrett and C. Tinelli. Leveraging Linear and Mixed Integer Programming for SMT

11:15-11:45 T. Van Khanh, V. Xuan Tung and M. Ogawa. raSAT: SMT for Polynomial Inequality

11:45-12:15 M. Kosta, T. Sturm and A. Dolzmann. Better Answers to Real Questions

12:15-12:45 K. Korovin, M. Kosta and T. Sturm. Towards Conflict-Driven Learning for Virtual Substitution

Session 90AX (PSC): Contributed Talks: Extracting Parsers and Ancestral Logic

10:45-12:15

Chair: Dirk Pattinson

Location: FH, CAD 1

10:45-11:30 U. Berger, A. Jones and M. Seisenberger. Extracting Monadic Parsers from Proofs

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11:30-12:15 L. Cohen and R. Constable. Intuitionistic Ancestral Logic

Session 90AY (iPRA): iPrA Regular Talks

10:45-13:00

Chair: Arie Gurfinkel

Location: FH, Seminarraum 101A

10:45-11:15 P. Koopmann and R.A. Schmidt. Resolution Based Uniform Interpolation for Expressive Description Logics

11:15-11:45 A. Legg, N. Narodytska and L. Ryzhyk. Practical CNF Interpolants Via BDDs

11:45-12:15 E. Franconi, P. Guagliardo, V. Kerhet and N. Ngo. Interpolation and Domain Independence applied to Databases

12:15-12:45 G. Schadler and G. Hofferek. Tree-based Modular SMT Solving

Session 90AZ (FCS-FCC): Invited Speaker

10:45-11:45

Chair: Boris Köpf

Location: MB, Hörsaal 7

10:45-11:45 U. Maurer. Constructive Cryptography and Security Proofs

Session 90BA (PCCR): Contributed talks

10:45-11:45

Chair:

Location: FH, Hörsaal 3

10:45-11:15 N. Labai and J. Makowsky. Connection matrices of finite rank instead of definability in Monadic Second Order Logic

11:15-11:45 J. Johannsen. Backdoors into Two Occurrences

Session 90BB (STAST): Security Ceremonies and Policies

10:45-13:00

Chair:

Location: MB, Seminarraum 212/232

10:45-11:30 D. Jeske, L. Coventry and P. Briggs. Decision justifications for wireless network selection

11:30-12:15 O. Buckley, J. Nurse, P. Legg, M. Goldsmith and S. Creese. Reflecting on the Ability of Enterprise Security Policy to Address Accidental Insider Threat

12:15-13:00 T. Martimiano, J.E. Martina, M. Olembo and M. Carlos. Modelling User Devices in Security Ceremonies

Session 90BC (RCRA): Constraints (continued)

10:45-11:15

Chair:

Location: MB, Hörsaal 12

10:45-11:15 R. Wallace. Neighbourhood SAC for Preprocessing and Search

Session 90BD (ADDCT): Invited talk

10:45-12:00

Chair:

Location: FH, Zeichensaal 1

10:45-11:45 N. Peltier. A Superposition-Based Approach to Abductive Reasoning in Equational Clausal Logic

Session 90BE (CHR, CICLOPS-WLPE): Contributed Talks

10:45-12:45

Chair: Jon Sneyers

Location: FH, Hörsaal 7

10:45-11:15 R. Gerlich. Automated Test Case Generation and Model Checking with CHR

11:15-11:45 F. Nogatz and T. Fruehwirth. From XML Schema to JSON Schema: Translation with CHR

11:45-12:15 E.S.L. Lam and I. Cervesato. Constraint Handling Rules with Multiset Comprehension Patterns

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12:15-12:45 . Everyone. Discussion

Session 90BF (VPT): Contributed Talks
10:45-13:00

Chair:

Location: FH, Dissertantenraum E104

10:45-11:30 A. Nemytykh. On Unfolding for Programs Using Strings as a Data Type

11:30-12:15 D. Frumin and I. Lomazova. Branching Processes of Conservative Nested Petri Nets

12:15-13:00 G. Hamilton and M.H. Sørensen. Local Driving in Higher-Order Positive Supercompilation via the Omega-theorem

Session 90BG (QED)
10:45-13:00

Chair: Freek Wiedijk

Location: FH, Hörsaal 4

10:45-11:20 A. Grabowski. 25 years of the Mizar Mathematical Library

11:20-11:55 G. Klein. The seL4 microkernel verification

11:55-12:15 M. Myreen. Towards Formally Verified Theorem Provers - Part I

12:15-12:30 R. Kumar. Towards Formally Verified Theorem Provers - Part II

12:30-13:00 C. Sacerdoti Coen. TBA

Session 90BH (HOPA): Invited Talk 2 and Submitted Talks: Javascript and Concurrency
10:45-12:45

Chair:

Location: FH, Seminarraum 138C

10:45-11:45 A. Møller. Program Analysis for JavaScript Web Applications

11:45-12:15 N. Labich. Analyzing JavaScript: The Bad Parts

12:15-12:45 M. Hague. Saturation of Concurrent Collapsible Pushdown Systems (Extended Abstract)

Session 91 (LC): Tutorial and invited talk
11:00-13:00

Chair:

Location: MB, Prechtlssaal

11:00-12:00 A. Cordón-Franco. On local induction schemes

12:00-13:00 A. Miquel. Tutorial on Classical Realizability and Forcing 2

Session 92 (RCRA): Heuristic, randomised and probabilistic approaches
11:20-13:00

Chair:

Location: MB, Hörsaal 12

11:20-11:50 R. Riveret, P. Caianiello, S. Costantini and M. Draief. Concept Learning by a Monte-Carlo Tree Search of Argumentations

11:50-12:20 S. Pathak, L. Pulina and A. Tacchella. Evaluating Probabilistic Model Checking Tools for Verification of Robot Control Policies

12:20-12:40 L. Mancini, A. Milani, V. Poggioni and A. Chiancone. Self Regulating Mechanisms for Network Immunization

12:40-13:00 S. Abou-Msabah. A Controlled Stability Genetic Algorithm of the BLF2G Guillotine Placement Heuristic for the Orthogonal Cutting-Stock Problem

Session 93A (ITRS): Break
11:45-12:00

Chair: Jakob Rehof

Location: MB, Zeichensaal 14

Session 93B (NLCS): talks after an invited NLCS/NLSR lecture by Aarne Ranta
11:45-12:45

Chair: Christophe Fouqueré

Location: FH, CAD 2

11:45-12:15 R. Crouch. Transfer Semantics for the Clear Parser

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12:15-12:45 J. Kang and S.D. Patrick. Analyzing and Modelling the Structure of Argument Compounds in Logic: the case of technical texts

Session 94A (ITRS)
12:00-13:00

Chair: Moritz Martens

Location: MB, Zeichensaal 14

12:00-12:30 K. Kikuchi. Uniform Proofs of Normalisation and Approximation for Intersection Types

12:30-13:00 C. Grellois and P.-A. Melliès. Indexed linear logic and higher-order model checking

Session 94B (APPA): Invited Tutorials (Interactive Theorem Provers and Calculus of Inductive Constructions)
12:00-13:00

Chair:

Location: FH, Seminarraum 325/1

12:00-12:30 M. Wenzel. Interactive Theorem Provers from the perspective of Isabelle/Isar

12:30-13:00 C. Paulin-Mohring. Calculus of Inductive Constructions

Session 94C (DL): Contributed Talks and Poster Announcements
12:00-13:00

Chair:

Location: EI, EI 7

12:00-12:25 A. Artale, R. Kontchakov, A. Kovtunova, V. Ryzhikov, F. Wolter and M. Zakharyashev. Temporal OBDA with LTL and DL-Lite

12:25-12:50 S. Klarman and T. Meyer. Complexity of Temporal Query Abduction in DL-Lite

12:50-12:53 J. Leo, U. Sattler and B. Parsia. Temporalising EL Concepts with Time Intervals

12:53-12:56 E.A.N. Ongoma, C.M. Keet and T. Meyer. Transition Constraints for Temporal Attributes

12:56-12:59 Ö.L. Özcep, R. Möller and C. Neuenstadt. A Stream-Temporal Query Language for Ontology Based Data Access

Session 94D (FCS-FCC): Technical Session
12:00-13:00

Chair: Pedro Adão

Location: MB, Hörsaal 7

12:00-12:20 H. Comon-Lundh, V. Cortier and G. Scerri. A tool for automating the computationally complete symbolic attacker

12:20-12:40 A. Cappai and U. Dal Lago. Towards a Coinductive Characterization of Computational Indistinguishability

12:40-13:00 A. Datta, D. Kaynar, D. Sharma and A. Sinha. Actual Causes of Security Violations

Session 94E (PCCR): Contributed talk
12:00-12:30

Chair:

Location: FH, Hörsaal 3

12:00-12:30 R. Ganian, S. Szeider and M. Ramanujan. Discovering Archipelagos of Tractability: Split-Backdoors to Constraint Satisfaction

Session 94F (ADDCT): Satisfiability Modulo Theories and Applications
12:00-13:00

Chair:

Location: FH, Zeichensaal 1

12:00-12:30 P. Chocron, P. Fontaine and C. Ringeissen. Satisfiability Modulo Non-Disjoint Combinations of Theories Connected via Bridging Functions

12:30-13:00 Z. Pavlinovic, T. King and T. Wies. Finding Minimum Type Error Sources

Session 94G (NMR): Contributed Talks: Benchmarks
12:00-13:00

Chair:

Location: EI, EI 9

12:00-12:30 D. Le Berre. Some thoughts about benchmarks for NMR

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12:30-13:00 E. Cabrio and S. Villata. Towards a Benchmark of Natural Language Arguments

Session 95 (EC2): Discussion

12:15-13:00

Chair:

Location: FH, Seminarraum 101C

Session 96AA (Coq): Formalizations in Coq

14:30-16:00

Chair: Derek Dreyer

Location: MB, Hörsaal 14A

14:30-15:00 R. Affeldt and J. Garrigue. Formalization of Error-correcting Codes using SSReflect

15:00-15:30 S. Schäfer, T. Tebbi and G. Smolka. Autosubst: Automation for de Bruijn Substitutions

15:30-16:00 G. Malecha, J. Bengtson and A. Chlipala. Automating Abstract Logics

Session 96AB (CSL-LICS): Games and Finite Models

14:30-16:00

Chair: Jan Otop

Location: FH, Hörsaal 1

14:30-15:00 R. Alur, A. Freilich and M. Raghothaman. Regular Combinators for String Transformations

15:00-15:30 J. Endrullis and D. Hendriks. On Periodically Iterated Morphisms

15:30-16:00 Y. Velner. Finite-Memory Strategy Synthesis for Robust Multidimensional Mean-Payoff Objectives

Session 96AC (CSL-LICS): Types

14:30-16:00

Chair: Luke Ong

Location: FH, Hörsaal 5

14:30-15:00 R.E. Møgelberg. A type theory for productive coprogramming via guarded recursion

15:00-15:30 G. Munch-Maccagnoni. Formulae-as-Types for an Involutive Negation

15:30-16:00 D.R. Licata and E. Finster. Eilenberg-MacLane Spaces in Homotopy Type Theory

Session 96AD (CAV): Tutorial: Hardware Model Checking

14:30-16:00

Chair: Roderick Bloem

Location: FH, Hörsaal 6

14:30-16:00 F. Somenzi. Hardware Model Checking (Part A)

Session 96AE (ICLP): Summer School on Computational Logic: Answer Set Programming I

14:30-16:00

Chair:

Location: Seminarraum 1/3 OPG

14:30-16:00 M. Gebser. Answer Set Programming I

Session 96AF (ITRS)

14:30-15:30

Chair: Moritz Martens

Location: MB, Zeichensaal 14

14:30-15:00 M. Benke, V. Bono and A. Schubert. Lucretia — intersection type polymorphism for scripting languages

15:00-15:30 M. Pereira, S. Alves and M. Florido. Liquid Intersection Types

Session 96AG (LC): Special session: Philosophy of Mathematics

14:30-16:00

Chair:

Location: MB, Hörsaal 14

14:30-15:15 P. Blanchette. Frege on mathematical progress

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15:15-16:00 G. Uzquiano. On Bernays' Generalization of Cantor's Theorem

Session 96AH (LC): Special session: Set Theory

14:30-16:00

Chair:

Location: MB, Seminarraum 225

14:30-15:15 D. Ikegami. Large cardinals, forcing axioms, and the theory of subsets of ω_1

15:15-16:00 P. Lücke. Locally definable well-orders

Session 96AI (WST): Term Rewriting Revisited

14:30-16:00

Chair:

Location: FH, Seminarraum 101B

14:30-15:00 D. Hofbauer. On the derivational complexity of Kachinuki orderings

15:00-15:30 A. Geser. Kurth's Criterion H Revisited

15:30-16:00 N. Dershowitz. Another Proof for the Recursive Path Ordering

Session 96AJ (QUANTIFY): QBF and First-Order Logic

14:30-16:00

Chair:

Location: FH, Seminarraum 136

14:30-15:30 F. Bacchus. Algorithmic Paradigms for Solving QBF

15:30-16:00 J. Álvarez, M. Herme and P. Lucio. Projective Quantifier Elimination for Equational Constraint Solving

Session 96AK (AISS)

14:30-16:00

Chair:

Location: FH, Seminarraum 134

14:30-15:30 O. Serre. Playing with Automata and Trees

15:30-16:00 M. Lang. Quantitative Automatic Structures

Session 96AL (CHR, CICLOPS-WLPE): Invited Talk

14:30-16:00

Chair: Terrance Swift

Location: FH, Hörsaal 7

14:30-15:30 J. Giesl, T. Ströder, P. Schneider-Kamp, F. Emmes and C. Fuhs. Symbolic Evaluation Graphs and Term Rewriting - A General Methodology for Analyzing Logic Programs

15:30-16:00 . Everyone. Discussion

Session 96AM (APPA): Invited Tutorials (Foundational Proof Certificates, Deduction Modulo and Proof Analysis)

14:30-16:00

Chair:

Location: FH, Seminarraum 325/1

14:30-15:00 D. Miller. Foundational Proof Certificates

15:00-15:30 G. Dowek. Deduction Modulo

15:30-16:00 A. Leitsch. Mathematical Proof Analysis

Session 96AN (PAS): Invited Talk by Michael Rusinowitch

14:30-16:00

Chair:

Location: FH, Seminarraum 138A

14:30-15:30 M. Rusinowitch. Automated verification of security protocols and services

15:30-16:00 S. Stratulat. Building explicit induction schemas for cyclic induction reasoning

Session 96AP (VSTTE): Real Time and Security

14:30-16:00

Chair:

Location: FH, Zeichensaal 3

14:30-14:55 L. Spalazzi and F. Spegni. Model Checking Parameterized Timed Systems

14:55-15:20 M.A.L. Dubasi, S. Srinivasan and V. Wijayasekara. Timed Refinements for Verification of Real-Time Object Code Programs

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15:20-15:45 W.Y. Tan, R. Sinha, J. Manferdelli and S. Seshia. Formal Modeling and Verification of CloudProxy

Session 96AQ (LaSh): LaSh afternoon 1: Invited Talks - Lazy Grounding
14:30-16:10

Chair: Marc Denecker

Location: MB, Aufbaulabor

14:30-15:30 P. Stuckey. Laziness is next to Godliness

15:30-16:10 B. De Cat, M. Denecker, P. Stuckey, M. Bruynooghe and B. Bogaerts. Lazy Model Expansion: Interleaving Grounding with Search

Session 96AR (NLCS): NLCS contributed talks
14:30-16:00

Chair: Jordi Saludes

Location: FH, CAD 2

14:30-15:00 O. Rypacek and M. Sadrzadeh. A low-level treatment of quantifiers in categorical compositional distributional semantics

15:00-15:30 C. Fouquere and M. Quatrini. Divergence in Dialogues

15:30-16:00 M. Cramer. Modelling implicit dynamic introduction of function symbols in mathematical texts

Session 96AS (LATD): Invited Talk (Metcalf) and Contributed Talk
14:30-16:00

Chair:

Location: MB, Festsaal

14:30-15:30 G. Metcalfe. First-Order Logics and Truth Degrees

15:30-16:00 L.M. Cabrer. Classification of germinal MV-algebras

Session 96AT (ParSearchOpt): Talk and Panel Discussion
14:30-16:00

Chair:

Location: MB, Hörsaal 4

14:30-15:30 . All Workshop Presenters. General Panel Discussion

15:30-16:00 F. Campeotto, A. Dal Palù, A. Dovier, F. Fioretto and E. Pontelli. Towards a complete constraint solver on GPU

Session 96AU (ASA): Technical session
14:30-15:50

Chair:

Location: MB, Zeichensaal 13

14:30-15:10 D. Cvrcek. Application Oriented Low Cost Security Modules

15:10-15:50 M. Bond. Security APIs for Device Enrolment

Session 96AV (DL): Contributed Talks and Poster Announcements
14:30-15:50

Chair:

Location: EI, EI 7

14:30-14:55 S. Borgwardt, J.A. Leyva Galano and R. Peñaloza. Gödel FL₀ with Greatest Fixed-Point Semantics

14:55-15:20 S. Borgwardt. Fuzzy DLs over Finite Lattices with Nominals

15:20-15:23 F. Bobillo and U. Straccia. A MILP-based decision procedure for the (Fuzzy) Description Logic ALCB

15:23-15:26 M. Cerami and U. Straccia. Complexity sources in FDL

15:26-15:29 S. Borgwardt, F. Distel and R. Peñaloza. Gödel Description Logics with General Models

15:29-15:32 R. Peñaloza, V. Thost and A.-Y. Turhan. Certain Answers in a Rough World

15:32-15:35 I.I. Ceylan and R. Peñaloza. Bayesian Description Logics

15:35-15:38 A. Djedjai, H. Seridi and T. Khadir. Reasoning about Belief Uncertainty in DL-Lite N bool

15:38-15:41 F. Cerutti, G. de Mel, T. Norman, N. Oren, A. Parvizi, P. Sullivan and A. Toniolo. Obfuscation of Semantic Data: Restricting the Spread of Sensitive Information

15:41-15:44 T. Alsubait, B. Parsia and U. Sattler. Measuring Conceptual Similarity in Ontologies: How Bad is a Cheap Measure?

Program on Friday, July 18th

15:44-15:47 A. Ecke, R. Peñaloza and A.-Y. Turhan. Mary, What's Like All Cats?

Session 96AW (SMT): SMT-COMP and SMT-EVAL Presentations
14:30-16:00

Chair: Philipp Rümmer

Location: FH, Seminarraum 104

Session 96AX (PSC): Contributed Talks: Proof Search and Proof Relevance
14:30-16:00

Chair: Björn Lellmann

Location: FH, CAD 1

14:30-15:15 M. Ferrari and C. Fiorentini. Proof-search in natural deduction calculi for IPL

15:15-16:00 S. Melikhov. A joint logic of problems and propositions, a modified BHK-interpretation and proof-relevant topological models of intuitionistic logic

Session 96AY (iPrA): iPrA Regular Talks
14:30-16:00

Chair: Thomas Wies

Location: FH, Seminarraum 101A

14:30-15:00 M. Rocchetto, L. Viganò and M. Volpe. Using Interpolation for the Verification of Security Protocols (Extended Abstract)

15:00-15:30 K. McMillan. Interpolation Strategies

15:30-16:00 P.A. Abdulla, M.F. Atig, Y.-F. Chen, L. Holik, A. Rezine, P. Rümmer and J. Stenman. Towards Craig Interpolation for String Constraints

Session 96AZ (FCS-FCC): Technical Session
14:30-16:00

Chair: Carroll Morgan

Location: MB, Hörsaal 7

14:30-15:00 P. Mardziel, M. Alvim and M. Hicks. Adversary Gain vs. Defender Loss in Quantified Information Flow

15:00-15:30 A. Bichhawat, V. Rajani, D. Garg and C. Hammer. Generalizing Permissive-Upgrade in Dynamic Information Flow Analysis

15:30-15:50 C. Hritcu. Micro-Policies: Formally Verified Low-Level Tagging Schemes for Safety and Security (Short Paper)

Session 96BA (PCCR): Invited talk
14:30-15:30

Chair:

Location: FH, Hörsaal 3

14:30-15:30 G. Gottlob. Structural Decomposition Methods: How They Matter

Session 96BB (STAST): Security and Human Behaviour
14:30-16:00

Chair:

Location: MB, Seminarraum 212/232

14:30-15:15 S. Uebelacker and S. Quiel. The Social Engineering Personality Framework

15:15-16:00 J. Boender, M.G. Ivanova, F. Kammüller and G. Primiero. Modeling Human Behaviour with Higher Order Logic: Insider Threats

Session 96BC (ADDCT): Dynamic and Modal Logic
14:30-16:00

Chair:

Location: FH, Zeichensaal 1

14:30-15:00 J. Boudou and P. Balbiani. Decidability of Iteration-free PDL with Parallel Composition

15:00-15:30 R.A. Schmidt, J. Stell and D. Rydeheard. Axiomatic and Tableau-Based Reasoning for $Kt(H,R)$

Program on Friday, July 18th

15:30-16:00 D. Cantone, J. Golinska-Pilarek and M. Nicolosi-Asmundo. On dual tableau-based decision procedures for relational fragments

Session 96BD (NSV): Special Session: Decidability with Numerical Methods
14:30-16:00

Chair:

Location: FH, Hörsaal 2

14:30-15:00 T. Dreossi. Epsilon-semantics and hybrid automata

15:00-15:30 S. Gao. Verifying Floating-Point Implementations of Nonlinear Functions

15:30-16:00 P. Theveny. Correctness of Parallel Interval Computations

Session 96BE (QED)
14:30-16:00

Chair: Josef Urban

Location: FH, Hörsaal 4

14:30-15:00 T.C. Hales. TBA

15:00-15:30 M. Beeson. Mixing proofs and computations

15:30-16:00 M. Cramer. The Naproche system: Proof-checking mathematical texts in controlled natural language

Session 96BF (CSL-LICS, LC): Special session: Perspectives on Induction
14:30-16:00

Chair:

Location: MB, Prechtlssaal

14:30-15:15 G. Jaeger. Weak well orders and related inductions

15:15-16:00 A. Bundy. Automating inductive proof

Session 96BG (VPT, WWV): Invited talk by Josep Silva
14:30-16:00

Chair:

Location: FH, Seminarraum 107

14:30-15:30 J. Silva. Automatic Detection of Webpage Candidates for Site-Level Web Template Extraction

Session 96BH (NMR): Contributed Talks: Argumentation 1
14:30-16:00

Chair:

Location: EI, EI 9

14:30-15:00 A. Hunter. Analysis of Dialogical Argumentation via Finite State Machines

15:00-15:30 R. Booth, D. Gabbay, S. Kaci, T. Rienstra and L. Van Der Torre. Abduction in Argumentation: Dialogical Proof Procedures and Instantiation

15:30-16:00 I.-A. Diakidoy, A. Kakas, L. Michael and R. Miller. Non-Monotonic Reasoning and Story Comprehension

Session 96BI (HOPA): Abstract Interpretation and Linear Logic
14:30-16:00

Chair:

Location: FH, Seminarraum 138C

14:30-15:00 S. Lyde and M. Might. Environment Unrolling

15:00-15:30 S. Lyde and M. Might. Strong Function Call

15:30-16:00 C. Grellois and P.-A. Melliès. The modal nature of colors in higher-order model-checking

Session 97 (PCCR): Contributed talk
15:30-16:00

Chair:

Location: FH, Hörsaal 3

15:30-16:00 S. Gaspers, N. Misra, S. Ordyniak, S. Szeider and S. Zivny. Backdoors into Heterogeneous Classes of SAT and CSP

Session 98 (DL): Poster Session (with coffee break)
15:50-16:40

Chair:

Location: EI, Foyer

Program on Friday, July 18th

Session 99AA (Coq): New IDEs & Coq 8.5 update
16:30-18:00

Chair: Antonis Stampoulis

Location: MB, Hörsaal 14A

16:30-17:00 C. Tankink. Asynchronous interaction for Coq

17:00-17:30 A. Faithfull and J. Bengtson. Coqoon: towards a modern IDE for Coq

17:30-18:00 M. Sozeau. Update on Coq 8.5

Session 99AB (CAV): Tutorial: Hardware Model Checking
16:30-18:00

Chair: Roderick Bloem

Location: FH, Hörsaal 6

16:30-18:00 F. Somenzi. Hardware Model Checking (Part B)

Session 99AC (CSL-LICS): Test-of-Time Award Presentations and Lectures
16:30-17:00

Chair:

Location: FH, Hörsaal 1

16:30-17:00 D. Kozen. Citations for the Test-of-Time Award from 1994

Session 99AD (ICLP): Summer School on Computational Logic: Answer Set Programming II
16:30-18:35

Chair:

Location: Seminarraum 1/3 OPG

16:30-18:30 M. Gebser. Answer Set Programming II

18:30-18:35 G. Gupta. Summer School Closing

Session 99AE (ITRS)
16:30-17:30

Chair: Moritz Martens

Location: MB, Zeichensaal 14

16:30-17:00 U. De Liguoro and T.-C. Chen. Semantic Types for Classes and Mixins

17:00-17:30 J. Bessai, B. Döder, A. Dudenhefner and M. Martens. Delegation-based Mixin Composition Synthesis

Session 99AF (LC): Special session: Philosophy of Mathematics
16:30-18:00

Chair:

Location: MB, Hörsaal 14

16:30-17:15 L. Incurvati and B. Loewe. Restrictiveness relative to notions of interpretation

17:15-18:00 L. Horsten. Reflection, Trust, Entitlement

Session 99AG (LC): Special session: Model Theory
16:30-18:00

Chair:

Location: MB, Seminarraum 225

16:30-17:15 J. Königsmann. Definable valuation rings

17:15-18:00 D. Palacín. The Fitting subgroup of a supersimple group

Session 99AH (WST): Discussion and Business Meeting
16:30-18:00

Chair:

Location: FH, Seminarraum 101B

16:30-17:30 . Everyone. Discussion and Business Meeting

Session 99AI (QUANTIFY): Satisfiability Modulo Theories
16:30-18:00

Chair:

Location: FH, Seminarraum 136

16:30-17:00 C. Wintersteiger. Efficiently Solving Quantified Bit-Vectors

17:00-17:30 N. Björner. Quantifier Projection

Program on Friday, July 18th

17:30-18:00 A. Reynolds, C. Tinelli and L. De Moura. Finding Conflicting Instances of Quantified Formulas in SMT

Session 99AJ (AISS)

16:30-18:00

Chair:

Location: FH, Seminarraum 134

16:30-17:30 P. Hofman. Simulation for infinite state systems.

17:30-18:00 P. Totzke. Simulation Over One-Counter Nets is PSPACE-Complete

Session 99AK (CHR, CICLOPS-WLPE): Implementation Issues

16:30-18:00

Chair: Gerda Janssens

Location: FH, Hörsaal 7

16:30-17:00 A.A. Morozov and A.F. Polupanov. Intelligent Visual Surveillance Logic Programming: Implementation Issues

17:00-17:30 F. Cruz, R. Rocha and S. Goldstein. A Parallel Virtual Machine for Executing Forward-Chaining Linear Logic Programs

17:30-18:00 . Everyone. Discussion

Session 99AL (APPA): Invited Tutorials (Verification, Security and Deep Inference)

16:30-18:00

Chair:

Location: FH, Seminarraum 325/1

16:30-17:00 J.-R. Abrial. Program Verification (B Method)

17:00-17:30 G. Barthe. Security

17:30-18:00 A. Guglielmi. Deep Inference

Session 99AM (PAS): Program Verification

16:30-18:10

Chair:

Location: FH, Seminarraum 138A

16:30-17:00 X. Hou, M. Lin and T. Jameel. A hybrid path constraint solver combined with meta-heuristic search

17:00-17:30 F. Wang, P.H. Chen and W.-H. Chiang. Automatic App Testing of LTL Properties

17:30-18:00 S. Ciobaca, D. Lucanu, V. Rusu and G. Rosu. Programming Language Aggregation with Applications in Equivalence Checking

Session 99AN (VSTTE): Verified Software Competition (VSCOMP 2014)

16:30-18:00

Chair:

Location: FH, Zeichensaal 3

Session 99AP (LaSh): LaSh afternoon 2: Invited Talks - Answer Set Programming

16:30-18:00

Chair: Mirek Truszczyński

Location: MB, Aufbaulabor

16:30-17:10 M. Abseher, B. Bliem, G. Charwat, F. Dusberger, M. Hecher and S. Woltran. The D-FLAT System for Dynamic Programming on Tree Decompositions

17:10-17:50 T. Janhunen. Cross-Translating Answer Set Programs

Session 99AQ (NLCS): NLCS contributed talks

16:30-18:00

Chair: Larry Moss

Location: FH, CAD 2

16:30-17:00 U. Berger, A. Jones and M. Seisenberger. Program Extraction Applied to Monadic Parsing

Program on Friday, July 18th

17:00-17:30 S. Kuznetsov. On Translating Context-Free Grammars into Lambek Categorical Grammars

Session 99AR (LATD): Contributed Talks

16:30-18:00

Chair:

Location: MB, Festsaal

16:30-17:00 O. Lahav and A. Avron. Cut-free calculus for second-order $\{G\}$ logic

17:00-17:30 F. Montagna, M. Bongini and A. Ciabatonni. Proof Search and Co-NP completeness for Many-Valued Logics

17:30-18:00 S. van Gool and R. Iemhoff. Cut and completion?

Session 99AS (LATD): Contributed Talks

16:30-18:00

Chair:

Location: MB, Hörsaal 15

16:30-17:00 T. Moraschini. Definability of truth predicates in abstract algebraic logic

17:00-17:30 H. Albuquerque, J.M. Font and R. Jansana. Generalizing the Leibniz and Suszko operators

17:30-18:00 L. Behounek. Church-style type theories over finitary weakly implicative logics

Session 99AT (SMT): SMT-LIB Discussion and Business Meeting

16:30-18:00

Chair: Cesare Tinelli

Location: FH, Seminarraum 104

Session 99AU (iPRA): iPrA Regular Talks, Discussions, Closing

16:30-18:00

Chair: Georg Weissenbacher

Location: FH, Seminarraum 101A

16:30-17:00 A. Albarghouthi, I. Dillig, A. Gurfinkel and M. Chechik. Specification Synthesis via Generalized Abduction

17:00-17:30 Y. Vizel and A. Gurfinkel. Interpolation from Clausal Proofs

17:30-18:00 L. Kovacs and G. Weissenbacher. Concluding discussions

Session 99AV (FCS-FCC): Technical Session

16:30-18:00

Chair: Veronique Cortier

Location: MB, Hörsaal 7

16:30-16:50 G. Bana and H. Comon-Lundh. Protocol Indistinguishability and the Computationally Complete Symbolic Attacker

16:50-17:10 S. Froeschle. On Well-Founded Security Protocols

17:10-17:30 G. Bana and M. Okada. Fitting's Embedding of Classical Logic in S4 and Trace Properties in the Computational Model

17:30-18:00 M. Kanovich, T. Ban Kirigin, V. Nigam, A. Scedrov and C. Talcott. Towards Timed Models for Cyber-Physical Security Protocols

Session 99AW (PCCR): PCCR panel

16:30-17:30

Chair:

Location: FH, Hörsaal 3

Session 99AX (STAST): Socio-Technical Security

16:30-18:00

Chair:

Location: MB, Seminarraum 212/232

16:30-17:15 S. Kiljan, H. Vranken and M. van Eekelen. What You Enter Is What You Sign: input integrity in an online banking environment

Program on Friday, July 18th

17:15-18:00 L. Kraus, I. Wechsung and S. Möller. Using Statistical Information to Communicate Android Permission Risks to Users

Session 99AY (NSV): NSV Invited Talk: Jim Kapinski
16:30-18:00

Chair:

Location: FH, Hörsaal 2

16:30-17:15 J. Kapinski. Numerical Challenges in Simulation-guided Dynamical System Analysis

Session 99AZ (QED)

16:30-18:00

Chair:

Location: FH, Hörsaal 4

16:30-17:00 G. Sutcliffe. QED and the TPTP World

17:00-17:30 M. Kohlhase. MathHub.info: Active Mathematics

17:30-18:00 C. Kaliszyk. Hammering towards QED

Session 99BA (WWV): Joint session with VPT: Web systems

16:30-18:00

Chair:

Location: FH, Seminarraum 107

16:30-17:00 A. Ali and M. Fernandez. Static Enforcement of Role-Based Access Control

17:00-17:30 R. Ramanujam and S. Sheerazuddin. A Local Logic for Realizability in Web Service Choreographies

Session 99BB (ASA): Panel Session: The W3C Web Crypto API

16:30-17:30

Chair:

Location: MB, Zeichensaal 13

Session 100 (DL): Contributed Talks

16:40-17:30

Chair:

Location: EI, EI 7

16:40-17:05 M. Kaminski, Y. Nenov and B. Cuenca Grau. Datalog Rewriting Techniques for Non-Horn Ontologies

17:05-17:30 M. Bienvenu, S. Kikot and V. Podolskii. Succinctness of Query Rewriting in OWL 2 QL: The Case of Tree-like Queries

Session 101A (CSL-LICS): Ackermann Award Presentation and Lecture

17:00-18:00

Chair:

Location: FH, Hörsaal 1

17:00-17:30 A. Dawar. The Ackermann Award 2014

Session 101B (NMR): NMR Social Event

17:00-18:00

Chair:

Session 102A (ITRS): Workshop closing

17:30-17:45

Chair: Jakob Rehof

Location: MB, Zeichensaal 14

Session 102B (PCCR): Workshop closing

17:30-17:45

Chair:

Location: FH, Hörsaal 3

Program on Friday, July 18th

Session 102C (VPT): Joint session with WWV
17:30-18:00

Chair:

Location: FH, Seminarraum 107

17:30-18:00 T. Sewell. Formal Replay of Translation Validation for Highly Optimised C

Session 103A (STAST): Workshop Closing
18:00-18:10

Chair:

Location: MB, Seminarraum 212/232

Session 103B (DL, NMR): DL/NMR Social Event and Dinner
18:00-23:30

Chair:

Session 104A (LC): Contributed talks A3
18:15-19:15

Chair:

Location: MB, Seminarraum 225

18:15-18:35 J.X. Madarász and G. Székely. A completeness theorem for general relativity

18:35-18:55 C.F. Nourani. More On Completion with Horn Filters

Session 104B (LC): Contributed talks B3
18:15-19:15

Chair:

Location: MB, Prechtlsaal

18:15-18:35 L. Cohen and A. Avron. Predicative Mathematics via Safety Relations

18:35-18:55 R. Mirek. Natural Deduction in Renaissance Geometry

18:55-19:15 O. Antonova. Aristotle's conception of demonstration and modern proof theory

Session 104C (LC): Contributed talks C3
18:15-19:15

Chair:

Location: MB, Hörsaal 14

18:15-18:35 A. Massolo and L. Urtubey. Modelling Inference in Fiction

18:35-18:55 J. Mueller-Theys. Metalogical Extensions--Part II: First-order Consequences and Gödel

Session 104D (QED)
18:15-18:45

Chair:

Location: FH, Hörsaal 4

18:15-18:45 J. Harrison. Panel Discussion

Program on Saturday, July 19th

Program on Saturday, July 19th

Conferences:

VSL: Vienna Summer of Logic 2014
FLoC: Federated Logic Conference 2014
CAV: International Conference on Computer Aided Verification
CSF: 2014 IEEE Computer Security Foundations Symposium
CSL-LICS: Joint Meeting of the 23rd EACSL Annual Conference on Computer Science Logic and the 29th ACM/IEEE Symposium on Logic in Computer Science
ICLP: 30th International Conference on Logic Programming
IJCAR: 7th International Joint Conference on Automated Reasoning (IJCAR)
ITP: 5th International Conference on Interactive Theorem Proving
RTA-TLCA: Joint 25th International Conference on Rewriting Techniques and Applications and 12th Typed Lambda Calculi and Applications
SAT: 17th International Conference on Theory and Applications of Satisfiability Testing
LC: Logic Colloquium 2014
LATD: Logic, Algebra, and Truth Degrees 2014
DL: 27th International Workshop on Description Logics
NMR: 14th International Workshop on Non-Monotonic Reasoning

Program on Saturday, July 19th

VSL	FLoC	CAV	CAV	CSF	CSL-LICS
08:45-10:15 VSL Session 106A FLoC Panel	08:45-10:15 FLoC Session 106A FLoC Panel	08:45-10:15 CAV Session 106A FLoC Panel		08:45-10:15 CSF Session 106A FLoC Panel	08:45-10:15 CSL-LICS Session 106A FLoC Panel
10:15-10:45 Coffee Break					
		10:45-13:05 CAV Session 109A Software Verification	10:45-12:45 CAV Session 109D FLoC Inter- Conference Topic: Security. Software Security	10:45-12:45 CSF Session 109D FLoC Inter- Conference Topic: Security. Software Security	
13:00-14:30 Lunch Break					
		14:30-16:00 CAV Session 113A FLoC Inter- Conference Topic: Security	14:30-16:00 CAV Session 113C FLoC Inter- Conference Topic: SAT/SMT/QBF	14:30-16:00 CSF Session 113A FLoC Inter- Conference Topic: Security	
16:00-16:30 Coffee Break					
		16:30-17:10 CAV Session 116A	16:30-17:00 CAV Session 116C	16:30-17:30 CSF Session 116E Invited Talk	
		17:10-18:00 CAV Session 119A Invited Talk	17:30-18:30 CAV Session 120	17:30-18:30 CSF Session 120 FLoC Inter- Conference Topic:	
			18:00-18:30 CAV Session 121		
19:00-21:30 Session 122:VSL Reception 2					
22:00-23:59 Session 123:VSL Student Reception 2					

Program on Saturday, July 19th

ICLP	IJCAR	ITP	RTA-TLCA	SAT	LC
					08:30-09:30 LC Session 105 Invited Talk (Scott)
08:45-10:15 ICLP Session 106A FLoC Panel	08:45-10:15 IJCAR Session 106A FLoC Panel	08:45-10:15 ITP Session 106A FLoC Panel	08:45-10:15 RTA-TLCA Session 106A FLoC Panel	08:45-10:15 SAT Session 106A FLoC Panel	09:35-10:15 LC Session 107A Contributed talks A4
10:15-10:45 Coffee Break					
10:45-13:00 ICLP Session 109B Conference Opening / Technical Session - Languages and Logic	10:45-13:00 IJCAR Session 109C Invited Talk & Higher-Order Logic				11:00-13:00 LC Session 110 Tutorial and invited talk
13:00-14:30 Lunch Break					
14:30-16:00 ICLP Session 113B Invited Talk / Technical Session: Domain Specific Languages	14:30-16:00 IJCAR Session 113C FLoC Inter- Conference Topic: SAT/SMT/QBF				14:00-16:00 LC Session 112 Invited talk and Karp prize winner
16:00-16:30 Coffee Break					
16:30-18:00 ICLP Session 116B Technical Session: Tabling and the Web	16:30-17:00 IJCAR Session 119C 17:00-17:10 17:10-18:00 IJCAR Session 119B Herbrand Award				16:30-18:30 LC Session 116D Invited talk and Gödel lecture
19:00-21:30 Session 122:VSL Reception 2					
22:00-23:59 Session 123:VSL Student Reception 2					

Program on Saturday, July 19th

LC	LC	LC	LC	LATD	LATD
				08:30-09:30 LATD Session 105 Invited Talk (Scott)	
09:35-10:15 LC Session 107B	09:35-10:15 LC Session 107C	09:35-10:15 LC Session 107D	09:35-10:15 LC Session 107E	09:45-10:15 LATD Session 108A	09:45-10:15 LATD Session 108B
10:15-10:45 Coffee Break					
				10:45-12:45 LATD Session 109F Invited Talk (Ghilardi) and Tutorial (Baader)	
13:00-14:30 Lunch Break					
				14:30-16:00 LATD Session 113E Contributed Talks	14:30-16:00 LATD Session 113F Contributed Talks
16:00-16:30 Coffee Break					
				16:30-17:00 LATD Session 116E	16:30-17:00 LATD Session 116C
19:00-21:30 Session 122:VSL Reception 2					
22:00-23:59 Session 123:VSL Student Reception 2					

Program on Saturday, July 19th

DL	NMR
	08:45-10:15 NMR Session 106B Contributed Talks: Causality and Inference
10:15-10:45 Coffee Break	
10:45-13:00 DL Session 109E Invited Talk, Contributed Talks, and Poster Announcements	10:45-12:15 NMR Session 109G Contributed Talks: Declarative Programming 3
	12:15-13:00 NMR Session 111 Contributed Talks: Systems 2
13:00-14:30 Lunch Break	
14:30-16:00 DL Session 113D Contributed Talks and Poster Announcements	14:30-15:30 NMR Session 113G Invited Talk
	15:30-16:00 NMR Session 114
16:00-16:50 DL Session 115 Poster Session (with coffee break)	16:00-16:30 Coffee Break
	16:30-18:30 NMR Session 116H Contributed Talks: Argumentation 2
16:50-18:30 DL Session 117 Contributed Talks	
18:30-18:45	
19:00-21:30 Session 122:VSL Reception 2	
22:00-23:59 Session 123:VSL Student Reception 2	

Program on Saturday, July 19th

Session 105 (LATD, LC): Invited Talk (Scott)
08:30-09:30

Chair:

Location: MB, Festsaal
08:30-09:30 D. Scott. Geometry without points

Session 106A (CAV, CSF, CSL-LICS, FLoC, ICLP, IJCAR, ITP, RTA-TLCA, SAT, VSL): FLoC Panel
08:45-10:15

Chair: Helmut Veith

Location: FH, Hörsaal 1
08:45-10:15 F. Bacchus, A. Biere, B. Cook, J. Ouaknine, K. Sakallah and M. Truszczynski. FLoC Panel:
Computational Complexity and Logic: Theory vs. Experiments

Session 106B (NMR): Contributed Talks: Causality and Inference
08:45-10:15

Chair:

Location: EI, EI 9
08:45-09:15 O. Beyersdorff and L. Chew. Tableau vs. Sequent Calculi for Minimal Entailment
09:15-09:45 J.-F. Baget, F. Garreau, M.-L. Mugnier and S. Rocher. Revisiting Chase Termination for Existential
Rules and their Extension to Nonmonotonic Negation
09:45-10:15 B. Salimi and L. Bertossi. Causality in Databases: The Diagnosis and Repair Connections

Session 107A (LC): Contributed talks A4
09:35-10:15

Chair:

Location: MB, Aufbaulabor
09:35-09:55 D. Fernández-Duque and J. Joosten. Provability logics and proof-theoretic ordinals
09:55-10:15 G. D'Agostino and G. Lenzi. On Uniform Interpolation for the Guarded Fragment

Session 107B (LC): Contributed talks B4
09:35-10:15

Chair:

Location: MB, Hörsaal 14A
09:35-09:55 A. Soskova. Degree spectra of sequences of structures
09:55-10:15 N. Schweber. Computability in generic extensions

Session 107C (LC): Contributed talks C4
09:35-10:15

Chair:

Location: MB, GUT Schulungsraum
09:35-09:55 M.A. Mota. Forcing with finite conditions and preserving CH
09:55-10:15 T. Usuba. Reflection principle of list-chromatic number of graphs

Session 107D (LC): Contributed talks D4
09:35-10:15

Chair:

Location: MB, Seminarraum Kuppel
09:35-09:55 M. Antonutti Marfori. Justifying proof-theoretic reflection principles
09:55-10:15 M. Szabo. C. I. Lewis' Influence on the Early Work of Emil Post

Session 107E (LC): Contributed talks E4
09:35-10:15

Chair:

Location: MB, Hörsaal 14
09:35-09:55 S. Vasey. Indiscernible extraction and Morley sequences

Program on Saturday, July 19th

09:55-10:15 M. Malicki. Consequences of the existence of ample generics and automorphism groups of homogeneous metric structures

Session 108A (LATD): Contributed Talk
09:45-10:15

Chair:

Location: MB, Festsaal

09:45-10:15 A. Avron. A Semi-relevant, Paraconsistent Dual of $\{\backslash\}$ ukasiewicz Logic

Session 108B (LATD): Contributed Talk
09:45-10:15

Chair:

Location: MB, Hörsaal 15

09:45-10:15 S. Jenei. Recent advances in the structural description of involutive FL $_{e}$ -chains

Session 109A (CAV): Software Verification
10:45-13:05

Chair: Domagoj Babic

Location: FH, Hörsaal 1

10:45-11:05 J.-C. Filliatre, L. Gondelman and A. Paskevich. The Spirit of Ghost Code

11:05-11:25 A. Komuravelli, A. Gurfinkel and S. Chaki. SMT-based Model Checking for Recursive Programs

11:25-11:45 S. Itzhaky, N. Bjørner, T. Reps, M. Sagiv and A. Thakur. Property-Directed Shape Analysis

11:45-12:05 Q.L. Le, C. Gherghina, S. Qin and W.-N. Chin. Shape Analysis via Second-Order Bi-Abduction

12:05-12:25 P. Garg, C. Loding, P. Madhusudan and D. Neider. ICE: A Robust Learning Framework for Synthesizing Invariants

12:25-12:45 R. Sharma and A. Aiken. From Invariant Checking to Invariant Inference Using Randomized Search

12:45-12:55 Z. Rakamaric and M. Emmi. SMACK: Decoupling Source Language Details from Verifier Implementations

12:55-13:05 R. Alur. Syntax-Guided Synthesis Competition Results

Session 109B (ICLP): Conference Opening / Technical Session - Languages and Logic
10:45-13:00

Chair: Peter Stuckey

Location: FH, Hörsaal 8

10:45-11:00 T. Schrijvers. Conference Opening

11:00-11:30 F. Cruz, R. Rocha, S. Goldstein and F. Pfenning. A Linear Logic Programming Language for Concurrent Programming over Graph Structures

11:30-12:00 E. Bellodi, E. Lamma, F. Riguzzi, V. Santos Costa and R. Zese. Lifted Variable Elimination for Probabilistic Logic Programming

12:00-12:30 A. Charalambidis, Z. Esik and P. Rondogiannis. Minimum Model Semantics for Extensional Higher-order Logic Programming with Negation

12:30-13:00 M. Comini, L. Titolo and A. Villanueva. Abstract Diagnosis for tccp using a Linear Temporal Logic

Session 109C (IJCAR): Invited Talk & Higher-Order Logic
10:45-13:00

Chair: Stephane Demri

Location: FH, Hörsaal 5

10:45-11:45 R. Gore. And-Or Tableaux for Fixpoint Logics with Converse: LTL, CTL, PDL and CPDL

11:45-12:15 J.C. Blanchette, A. Popescu and D. Traytel. Unified Classical Logic Completeness: A Coinductive Pearl

12:15-12:45 F. Lindblad. A Focused Sequent Calculus for Higher-Order Logic

Session 109D (CAV, CSF): FLoC Inter-Conference Topic: Security. Software Security
10:45-12:45

Chair:

Location: FH, Hörsaal 6

10:45-11:15 C. Dimoulas, S. Moore, A. Askarov and S. Chong. Declarative Policies for Capability Control

11:15-11:45 J. Kroll, G. Stewart and A. Appel. Portable Software Fault Isolation

11:45-12:15 R. Jagadeesan, C. Lubinski, C. Pitcher, J. Riely and C. Winebrinner. Certificates for Verifiable Forensics

Program on Saturday, July 19th

12:15-12:45 A. Chudnov, G. Kuan and D. Naumann. Information flow monitoring as abstract interpretation for relational logic

Session 109E (DL): Invited Talk, Contributed Talks, and Poster Announcements
10:45-13:00

Chair:

Location: EI, EI 7

10:45-11:45 A. Halevy. Invited Talk: Structured Data on the Web (or, a Personal Journey Away From and Back To Ontologies)

11:45-12:10 B. Cuenca Grau, E. Kharlamov, D. Zheleznyakov, M. Arenas and S. Marciuska. On Faceted Search over Knowledge Bases

12:10-12:35 D. Toman and G. Weddell. Pushing the CFDnc Envelope

12:35-12:38 A. Soylu, E. Kharlamov, D. Zheleznyakov, E. Jimenez-Ruiz, M. Giese and I. Horrocks. OptiqueVQS: Visual Query Formulation for OBDA

12:38-12:41 D. Lembo, R. Rosati, M. Ruzzi, D.F. Savo and E. Tocci. Visualization and management of mappings in ontology-based data access (progress report)

12:41-12:44 M. Console, D. Lembo, V. Santarelli and D.F. Savo. Graphol: Ontology representation through diagrams

12:44-12:47 M. Console and M. Lenzerini. Reducing global consistency to local consistency in Ontology-based Data Access - Extended Abstract

12:47-12:50 D. Calvanese, W. Fischl, R. Pichler, E. Sallinger and M. Simkus. Expressive Identification Constraints to Capture Functional Dependencies in Description Logics

12:50-12:53 G. Stoilos. OBDA Using RL Reasoners and Repairing

12:53-12:56 Y. Malheiros and F. Freitas. A Method to Develop Description Logic Ontologies Iteratively with Automatic Requirement Traceability

12:56-12:59 J. Chen, M. Ludwig, Y. Ma and D. Walther. Evaluation of Extraction Techniques for Ontology Excerpts

Session 109F (LATD): Invited Talk (Ghilardi) and Tutorial (Baader)
10:45-12:45

Chair:

Location: MB, Festsaal

10:45-11:45 S. Ghilardi. Step frames analysis in single- and multi-conclusion calculi

11:45-12:45 F. Baader. Tutorial: Fuzzy Description Logics (Part 2)

Session 109G (NMR): Contributed Talks: Declarative Programming 3
10:45-12:15

Chair:

Location: EI, EI 9

10:45-11:15 K. Shchekotykhin. Interactive Debugging of ASP Programs

11:15-11:45 M. Alviano and W. Faber. Semantics and Compilation of Answer Set Programming with Generalized Atoms

11:45-12:15 A. Šimko. A Family of Descriptive Approaches To Preferred Answer Sets

Session 110 (LC): Tutorial and invited talk
11:00-13:00

Chair:

Location: MB, Prechtlssaal

11:00-12:00 A. Miquel. Tutorial on Classical Realizability and Forcing 3

12:00-13:00 A. Bauer. Reductions in computability theory from a constructive point of view

Session 111 (NMR): Contributed Talks: Systems 2
12:15-13:00

Chair:

Location: EI, EI 9

12:15-12:37 S. Zhang, M. Sridharan, M. Gelfond and J. Wyatt. Integrating Declarative Programming and Probabilistic Graphical Models for Knowledge Representation and Reasoning in Robotics

Program on Saturday, July 19th

12:37-12:59 M. Balduccini, W. Regli and D. Nguyen. An ASP-Based Architecture for Autonomous UAVs in Dynamic Environments: Progress Report

Session 112 (LC): Invited talk and Karp prize winner
14:00-16:00

Chair:

Location: MB, Prechtlsaal

14:00-15:00 A. Visser. On a theorem of McAloon

15:00-16:00 M. Foreman. The Singular Cardinals Problem after 130 years or so

Session 113A (CAV, CSF): FLoC Inter-Conference Topic: Security
14:30-16:00

Chair: Somesh Jha

Location: FH, Hörsaal 1

14:30-14:50 H. Eldib and C. Wang. Synthesis of Masking Countermeasures against Side Channel Attacks

14:50-15:10 O. Chowdhury, L. Jia, D. Garg and A. Datta. Temporal Mode-Checking for Runtime Monitoring of Privacy Policies

15:10-15:30 P.A. Abdulla, M.F. Atig, Y.-F. Chen, L. Holik, A. Rezine, P. Reummer and J. Stenman. Program Verification through String Rewriting

15:30-15:50 S. Kanav, P. Lammich and A. Popescu. A Conference Management System with Verified Document Confidentiality

15:50-16:00 A.L. Ferrara, P. Madhusudan, T.L. Nguyen and G. Parlato. VAC - Verifier of Administrative Role-based Access Control Policies

Session 113B (ICLP): Invited Talk / Technical Session: Domain Specific Languages
14:30-16:00

Chair: Manuel Carro

Location: FH, Hörsaal 8

14:30-15:00 E.K. Jackson. A Module System for Domain-Specific Languages

15:00-16:00 N.-F. Zhou. Combinatorial Search With Picat

Session 113C (CAV, IJCAR): FLoC Inter-Conference Topic: SAT/SMT/QBF
14:30-16:00

Chair: Roberto Sebastiani

Location: FH, Hörsaal 5

14:30-15:00 O. Lahav and Y. Zohar. SAT-based Decision Procedure for Analytic Pure Sequent Calculi

15:00-15:30 M. Heule, M. Seidl and A. Biere. A Unified Proof System for QBF Preprocessing

15:30-16:00 C. Ansótegui, M.L. Bonet, J. Giráldez-Cru and J. Levy. The Fractal Dimension of SAT Formulas

Session 113D (DL): Contributed Talks and Poster Announcements
14:30-16:00

Chair:

Location: EI, EI 7

14:30-14:55 E. Botoeva, R. Kontchakov, V. Ryzhikov, F. Wolter and M. Zakharyashev. Query Inseparability by Games

14:55-15:20 M. Ludwig and D. Walther. Detecting Conjunctive Query Differences between ELHr-Terminologies using Hypergraphs

15:20-15:45 P. Koopmann and R.A. Schmidt. Forgetting and Uniform Interpolation for ALC-Ontologies with ABoxes

15:45-15:48 K. Halland, A. Britz and S. Klarman. TBox abduction in ALC using a DL tableau

15:48-15:51 F. Engström, A.R. Nizamani and C. Strannegård. Understandable Explanations in Description Logic

15:51-15:54 Y. Chabane, C. Rey and F. Toumani. WApproximation: computing approximate answers for ontological queries

15:54-15:57 Y. Ma and R. Peñaloza. Towards Parallel Repair: An Ontology Decomposition-based Approach

15:57-16:00 M. Thomazo. Analyzing the Complexity of Consistent Query Answering under Existential Rules

Session 113E (LATD): Contributed Talks
14:30-16:00

Chair:

Location: MB, Festsaal

14:30-15:00 S. Lapenta and I. Leustean. MV-algebras with product and the Pierce-Birkhoff conjecture

15:00-15:30 S. Lapenta and I. Leustean. On tensor product in Lukasiewicz logic

Program on Saturday, July 19th

15:30-16:00 R. Grigolia, A. Di Nola and G. Lenzi. On the Logic of Perfect MV-algebras

Session 113F (LATD): Contributed Talks

14:30-16:00

Chair:

Location: MB, Hörsaal 15

14:30-15:00 L. Schnüriger. Bases for admissible rules for fragments of RMt

15:00-15:30 J. Goudsmit. The Admissible Rules of Subframe Logics

15:30-16:00 W. Dzik and P. Wojtylak. Admissible rules and almost structural completeness in some first-order modal logics

Session 113G (NMR): Invited Talk

14:30-15:30

Chair:

Location: EI, EI 9

14:30-15:30 P. Besnard. Revisiting Postulates for Inconsistency Measures

Session 114 (NMR): Contributed Talk: Nonmonotonic Logics

15:30-16:00

Chair:

Location: EI, EI 9

15:30-16:00 J. Ji and H. Strass. Implementing Default and Autoepistemic Logics via the Logic of GK

Session 115 (DL): Poster Session (with coffee break)

16:00-16:50

Chair:

Location: EI, Foyer

Session 116A (CAV): Automata

16:30-17:10

Chair: Bernd Finkbeiner

Location: FH, Hörsaal 1

16:30-16:50 J. Esparza and J. Kretinsky. From LTL to Deterministic Automata: A Safrless Compositional Approach

16:50-17:10 L. D'Antoni and R. Alur. Symbolic Visibly Pushdown Automata

Session 116B (ICLP): Technical Session: Tabling and the Web

16:30-18:00

Chair: Gerda Janssens

Location: FH, Hörsaal 8

16:30-17:00 T. Lager and J. Wielemaker. Pengines: Web Logic Programming Made Easy

17:00-17:30 T. Swift. Incremental Tabling for Knowledge Representation and Reasoning

17:30-18:00 T. Mantadelis, R. Rocha and P. Moura. Tabling, Rational Terms, and Coinduction Finally Together!

Session 116C (CAV, IJCAR): FLoC Inter-Conference Topic: SAT/SMT/QBF

16:30-17:00

Chair: Uwe Waldmann

Location: FH, Hörsaal 5

16:30-17:00 P. Chocron, P. Fontaine and C. Ringeissen. A Gentle Non-Disjoint Combination of Satisfiability Procedures

Session 116D (LC): Invited talk and Gödel lecture

16:30-18:30

Chair:

Location: MB, Prechtlsaal

16:30-17:30 L. Kolodziejczyk. The problem of a model without collection and without exponentiation

Program on Saturday, July 19th

17:30-18:30 J. Knight. Computable structure theory and formulas of special forms

Session 116E (CSF): Invited Talk

16:30-17:30

Chair:

Location: FH, Hörsaal 6

16:30-17:30 F. Piessens. Towards a Zero-Software Trusted Computing Base for Extensible Systems

Session 116F (LATD): Contributed Talk

16:30-17:00

Chair:

Location: MB, Festsaal

16:30-17:00 A. Beckmann and N. Preining. Separating intermediate predicate logics of well-founded and dually well-founded structures by monadic sentences

Session 116G (LATD): Contributed Talk

16:30-17:00

Chair:

Location: MB, Hörsaal 15

16:30-17:00 A. Citkin. A meta-Logic of multiple-conclusion rules

Session 116H (NMR): Contributed Talks: Argumentation 2

16:30-18:30

Chair:

Location: EI, EI 9

16:30-17:00 R. Baumann, W. Dvorak, T. Linsbichler, H. Strass and S. Woltran. Compact Argumentation Frameworks

17:00-17:30 S. Polberg. Extension--based Semantics of Abstract Dialectical Frameworks

17:30-18:00 J. Frtús. Credulous and Skeptical Argument Games for Complete Semantics in Conflict Resolution based Argumentation

18:00-18:30 H. Strass. On the Relative Expressiveness of Argumentation Frameworks, Normal Logic Programs and Abstract Dialectical Frameworks

Session 117 (DL): Contributed Talks

16:50-18:30

Chair:

Location: EI, EI 7

16:50-17:15 Y. Zhou, Y. Nenov, B. Cuenca Grau and I. Horrocks. Pay-as-you-go Ontology Query Answering Using a Datalog Reasoner

17:15-17:40 G. Stoilos and G. Stamou. Hybrid Query Answering Over DL Ontologies

17:40-18:05 A. Steigmiller, B. Glimm and T. Liebig. Optimised Absorption for Expressive Description Logics

18:05-18:30 S. Ahmetaj, D. Calvanese, M. Ortiz and M. Simkus. Planning Problems for Graph Structured Data in Description Logics

Session 118 (IJCAR): Best Paper Award Ceremony

17:00-17:10

Chair: Christoph Weidenbach

Location: FH, Hörsaal 5

Session 119A (CAV): Invited Talk

17:10-18:00

Chair: Roderick Bloem

Location: FH, Hörsaal 1

17:10-18:00 E. Winfree. Designing and verifying molecular circuits and systems made of DNA

Session 119B (IJCAR): Herbrand Award Ceremony

17:10-18:00

Chair: Maria Paola Bonacina

Location: FH, Hörsaal 5

Program on Saturday, July 19th

Session 120 (CAV, CSF): FLoC Inter-Conference Topic: Security. Information Flow 1
17:30-18:30

Chair:

Location: FH, Hörsaal 6

17:30-18:00 P. Buiras, D. Stefan and A. Russo. On Dynamic Flow-sensitive Floating-Label Systems

18:00-18:30 H. Mantel, M. Perner and J. Sauer. Noninterference under Weak Memory Models

Session 121 (CAV): CAV Award Ceremony
18:00-18:30

Chair: Marta Kwiatkowska

Location: FH, Hörsaal 1

Session 122 (DL): ORE Competition Results
18:30-18:45

Chair:

Location: EI, EI 7

Session 122 (VSL): VSL Reception 2
19:00-21:30

Chair:

Location: University of Vienna, Arkadenhof

Session 123 (VSL): VSL Student Reception 2
22:00-23:59

Chair:

Location: Säulenhalle (Volksgarten)

Program on Sunday, July 20th

Program on Sunday, July 20th

Conferences:

VSL: Vienna Summer of Logic 2014
FLoC: Federated Logic Conference 2014
CAV: International Conference on Computer Aided Verification
CSF: 2014 IEEE Computer Security Foundations Symposium
CSL-LICS: Joint Meeting of the 23rd EACSL Annual Conference on Computer Science Logic and the 29th ACM/IEEE Symposium on Logic in Computer Science
ICLP: 30th International Conference on Logic Programming
IJCAR: 7th International Joint Conference on Automated Reasoning (IJCAR)
ITP: 5th International Conference on Interactive Theorem Proving
RTA-TLCA: Joint 25th International Conference on Rewriting Techniques and Applications and 12th Typed Lambda Calculi and Applications
SAT: 17th International Conference on Theory and Applications of Satisfiability Testing
KR: 14th International Conference on Principles of Knowledge Representation and Reasoning
DL: 27th International Workshop on Description Logics
NCPROOFS: Nonclassical Proofs: Theory, Applications and Tools

Program on Sunday, July 20th

VSL	VSL	VSL	FLoC	FLoC	FLoC
08:45-10:15 VSL Session 123 FLoC Plenary Talk			08:45-10:15 FLoC Session 123 FLoC Plenary Talk		
10:15-18:00 VSL Session 126A FLoC Olympic Games Big Screen: CASC Automated Theorem Proving System Competition (CASC-J7)	10:15-18:00 VSL Session 126B FLoC Olympic Games Big Screen: Termination Competition (termComp)	10:15-10:45 Coffee Break	10:15-18:00 FLoC Session 126A FLoC Olympic Games Big Screen: CASC Automated Theorem Proving System Competition (CASC-J7)	10:15-18:00 FLoC Session 126B FLoC Olympic Games Big Screen: Termination Competition (termComp)	10:15-10:45 Coffee Break
		13:00-14:30 Lunch Break			13:00-14:30 Lunch Break
		14:30-16:00 VSL Session 129G FLoC Olympic Games: Answer Set Programming Modeling Competition 2014			14:30-16:00 FLoC Session 129G FLoC Olympic Games: Answer Set Programming Modeling Competition 2014
		16:00-16:30 Coffee Break			16:00-16:30 Coffee Break
19:00-21:30 Session 142:VSL Banquet 2					

Program on Sunday, July 20th

CAV	CAV	CAV	CAV	CSF	CSF
08:45-10:15 CAV Session 123 FLoC Plenary Talk				08:45-10:15 CSF Session 123 FLoC Plenary Talk	
10:15-18:00 CAV Session 126A FLoC Olympic Games Big Screen: CASC Automated Theorem Proving System Competition (CASC-J7)	10:15-18:00 CAV Session 126B FLoC Olympic Games Big Screen: Termination Competition (termComp)	10:15-10:45 Coffee Break		10:15-18:00 CSF Session 126A FLoC Olympic Games Big Screen: CASC Automated Theorem Proving System Competition (CASC-J7)	10:15-18:00 CSF Session 126B FLoC Olympic Games Big Screen: Termination Competition (termComp)
		10:45-13:05 CAV Session 127C Model Checking and Testing			
			13:00-14:30 Lunch Break		
		14:30-16:00 CAV Session 129C Biology and Hybrid Systems	14:30-16:00 CAV Session 129G FLoC Olympic Games: Answer Set Programming Modeling Competition 2014		
		16:00-16:30 Coffee Break			
		16:30-17:10 CAV Session 130C Hybrid Systems			
		17:10-18:00 CAV Session 131 Invited Talk			
19:00-21:30 Session 142:VSL Banquet 2					

Program on Sunday, July 20th

CSF	CSF	CSL-LICS	CSL-LICS	CSL-LICS	ICLP
		08:45-10:15 CSL-LICS Session 123 FLoC Plenary Talk			08:45-10:15 ICLP Session 123 FLoC Plenary Talk
10:15-10:45 Coffee Break		10:15-18:00 CSL-LICS Session 126A FLoC Olympic Games Big Screen: CASC Automated Theorem Proving System Competition (CASC-J7)	10:15-18:00 CSL-LICS Session 126B FLoC Olympic Games Big Screen: Termination Competition (termComp)	10:15-10:45 Coffee Break	10:15-18:00 ICLP Session 126A FLoC Olympic Games Big Screen: CASC Automated Theorem Proving System Competition (CASC-J7)
10:45-12:45 CSF Session 127F Usable Security					
13:00-14:30 Lunch Break				13:00-14:30 Lunch Break	
14:30-16:00 CSF Session 129F Cryptography 1	14:30-16:00 CSF Session 129G FLoC Olympic Games: Answer Set Programming Modeling Competition 2014			14:30-16:00 CSL-LICS Session 129G FLoC Olympic Games: Answer Set Programming Modeling Competition 2014	
16:00-16:30 Coffee Break				16:00-16:30 Coffee Break	
16:30-18:00 CSF Session 130F Cryptography 2					
19:00-21:30 Session 142:VSL Banquet 2					

Program on Sunday, July 20th

ICLP	ICLP	ICLP	IJCAR	IJCAR	IJCAR
			08:45-10:15 IJCAR Session 123 FLoC Plenary Talk		
10:15-18:00 ICLP Session 126B FLoC Olympic Games Big Screen: Termination Competition (termComp)	10:15-10:45 Coffee Break		10:15-18:00 IJCAR Session 126A FLoC Olympic Games Big Screen: CASC Automated Theorem Proving System Competition (CASC-J7)	10:15-18:00 IJCAR Session 126B FLoC Olympic Games Big Screen: Termination Competition (termComp)	10:15-10:45 Coffee Break
	10:45-13:00 ICLP Session 127D Test of Time Award: 10 Years / Technical Session: Constraints and Constraint Handling Rules				10:45-13:00 IJCAR Session 127E Equational Reasoning
	13:00-14:30 Lunch Break				13:00-14:30 Lunch Break
	14:30-16:00 ICLP Session 129D Technical Session: Semantics	14:30-16:00 ICLP Session 129G FLoC Olympic Games: Answer Set Programming Modeling Competition 2014			14:30-16:00 IJCAR Session 129E Verification
	16:00-16:30 Coffee Break				16:00-16:30 Coffee Break
	16:30-18:00 ICLP Session 130D ASP Competition Report / Technical Session - Knowledge Representation and Reasoning				16:30-18:00 IJCAR Session 130E Proof Theory
19:00-21:30 Session 142:VSL Banquet 2					

Program on Sunday, July 20th

IJCAR	ITP	ITP	ITP	RTA-TLCA	RTA-TLCA				
	08:45-10:15 ITP Session 123 FLoC Plenary Talk			08:45-10:15 RTA-TLCA Session 123 FLoC Plenary Talk					
10:15-10:45 Coffee Break			10:15-10:45 Coffee Break						
13:00-14:30 Lunch Break			10:15-18:00 ITP Session 126A FLoC Olympic Games Big Screen: CASC Automated Theorem Proving System Competition (CASC-J7)			10:15-18:00 ITP Session 126B FLoC Olympic Games Big Screen: Termination Competition (termComp)	13:00-14:30 Lunch Break	10:15-18:00 RTA-TLCA Session 126A FLoC Olympic Games Big Screen: CASC Automated Theorem Proving System Competition (CASC-J7)	10:15-18:00 RTA-TLCA Session 126B FLoC Olympic Games Big Screen: Termination Competition (termComp)
14:30-16:00 IJCAR Session 129G FLoC Olympic Games: Answer Set Programming Modeling Competition 2014			14:30-16:00 ITP Session 129G FLoC Olympic Games: Answer Set Programming Modeling Competition 2014						
16:00-16:30 Coffee Break			16:00-16:30 Coffee Break						
19:00-21:30 Session 142:VSL Banquet 2									

Program on Sunday, July 20th

RTA-TLCA	SAT	SAT	SAT	KR	KR
	08:45-10:15 SAT Session 123 FLoC Plenary Talk			09:15-10:15 KR Session 125A Tutorial 1 - Ekaterina Ovchinnikova: Natural Language	09:15-10:15 KR Session 125B Tutorial 2 - Lawrence S. Moss: Dynamic Epistemic Logic and
10:15-10:45 Coffee Break	10:15-18:00 SAT Session 126A FLoC Olympic Games Big Screen: CASC Automated Theorem Proving System Competition (CASC-J7)	10:15-18:00 SAT Session 126B FLoC Olympic Games Big Screen: Termination Competition (termComp)	10:15-10:45 Coffee Break		
			10:45-12:45 KR Session 127A Tutorial 1 (Continued) - Ekaterina Ovchinnikova: Natural Language Understanding with World Knowledge and Inference	10:45-12:45 KR Session 127B Tutorial 2 (Continued) - Lawrence S. Moss: Dynamic Epistemic Logic and its Interaction with Knowledge Representation	
13:00-14:30 Lunch Break			13:00-14:30 Lunch Break		
14:30-16:00 RTA-TLCA Session 129G FLoC Olympic Games: Answer Set Programming Modeling Competition 2014			14:30-16:00 SAT Session 129G FLoC Olympic Games: Answer Set Programming Modeling Competition 2014	14:30-16:00 KR Session 129A Tutorial 3 - Alessio Lomuscio: Verification of Multi- Agent Systems against Epistemic Specifications	14:30-16:00 KR Session 129B Tutorial 4 - Riccardo Rosati: Query Answering and Rewriting in Ontology-Based Data Access
16:00-16:30 Coffee Break			16:00-16:30 Coffee Break		
				16:30-18:00 KR Session 130A Tutorial 3 (Continued) - Alessio Lomuscio: Verification of Multi- Agent Systems against Epistemic	16:30-18:00 KR Session 130B Tutorial 4 (Continued) - Riccardo Rosati: Query Answering and Rewriting in Ontology-Based
	19:00-21:30 Session 142:VSL Banquet 2		18:30-21:30 KR Session 134 KR Reception followed by VSL Banquet 2	19:00-21:30 Session 142:VSL Banquet 2	

Program on Sunday, July 20th

DL	ICLP DC	NCPROOFS
09:00-10:15 DL Session 124 Contributed Talks		
10:15-10:45 Coffee Break		
10:45-13:00 DL Session 127G Contributed Talks	10:45-13:00 ICLP DC Session 127H	10:45-12:45 NCPROOFS Session 127I
13:30-14:30 DL Session 128 DL Business Meeting	13:00-14:30 Lunch Break	
	14:30-16:00 ICLP DC Session 129H	14:30-16:00 NCPROOFS Session 129I
16:00-16:30 Coffee Break		
	16:30-17:20 ICLP DC Session 130G 17:20-18:00 ICLP DC Session 132 Panel Discussion	16:30-18:00 NCPROOFS Session 130H
19:00-21:30 Session 142:VSL Banquet 2		

Program on Sunday, July 20th

Session 123 (CAV, CSF, CSL-LICS, FLoC, ICLP, IJCAR, ITP, RTA-TLCA, SAT, VSL): FLoC Plenary Talk
08:45-10:15

Chair: Andrei Voronkov

Location: FH, Hörsaal 1

08:45-09:45 V. Cortier. FLoC Plenary Talk: Electronic voting: how logic can help?

Session 124 (DL): Contributed Talks

09:00-10:15

Chair:

Location: EI, EI 7

09:00-09:25 W. Gatens, B. Konev and F. Wolter. Lower and Upper Approximations for Depleting Modules of Description Logic Ontologies

09:25-09:50 F. Martin-Recuerda and D. Walther. Axiom Dependency Hypergraphs for Fast Modularisation and Atomic Decomposition

Program on Sunday, July 20th

09:50-10:15 C. Del Vescovo and R. Peñaloza. DeaLing with Ontologies using CODs

Session 125A (KR): Tutorial 1 - Ekaterina Ovchinnikova: Natural Language Understanding with World Knowledge and Inference
09:15-10:15

Chair:

Location: EI, EI 10

09:15-10:15 E. Ovchinnikova. Natural Language Understanding with World Knowledge and Inference (Part I)

Session 125B (KR): Tutorial 2 - Lawrence S. Moss: Dynamic Epistemic Logic and its Interaction with Knowledge Representation
09:15-10:15

Chair:

Location: EI, EI 9

09:15-10:15 L.S. Moss. Dynamic Epistemic Logic and Its Interaction with Knowledge Representation (Part I)

Session 126A (CAV, CSF, CSL-LICS, FLoC, ICLP, IJCAR, ITP, RTA-TLCA, SAT, VSL): FLoC Olympic Games Big Screen: CASC Automated Theorem Proving System Competition (CASC-J7)
10:15-18:00

Chair:

Location: FH, 2nd floor

10:15-18:00 G. Sutcliffe. FLoC Olympic Games Big Screen: 7th IJCAR ATP System Competition (CASC-J7)

Session 126B (CAV, CSF, CSL-LICS, FLoC, ICLP, IJCAR, ITP, RTA-TLCA, SAT, VSL): FLoC Olympic Games Big Screen: Termination Competition (termComp)
10:15-18:00

Chair:

Location: FH, 2nd floor

10:15-18:00 J. Giesl, S. von der Krone, F. Mesnard, A. Rubio, R. Thiemann and J. Waldmann. FLoC Olympic Games Big Screen: Termination Competition (termCOMP 2014)

Session 127A (KR): Tutorial 1 (Continued) - Ekaterina Ovchinnikova: Natural Language Understanding with World Knowledge and Inference
10:45-12:45

Chair:

Location: EI, EI 10

10:45-12:45 E. Ovchinnikova. Natural Language Understanding with World Knowledge and Inference (Part II)

Session 127B (KR): Tutorial 2 (Continued) - Lawrence S. Moss: Dynamic Epistemic Logic and its Interaction with Knowledge Representation
10:45-12:45

Chair:

Location: EI, EI 9

10:45-12:45 L.S. Moss. Dynamic Epistemic Logic and Its Interaction with Knowledge Representation (Part II)

Session 127C (CAV): Model Checking and Testing
10:45-13:05

Chair: Orna Grumberg

Location: FH, Hörsaal 1

10:45-11:05 E. Bardsley, A. Betts, N. Chong, P. Collingbourne, P. Deligiannis, A. Donaldson, J. Ketema, D. Liew and S. Qadeer. Engineering a Static Verification Tool for GPU Kernels

11:05-11:25 K. McMillan. Lazy Annotation Revisited

11:25-11:45 Y. Vizel and A. Gurfinkel. Interpolating Property Directed Reachability

11:45-12:05 J. Bingham and J. Leslie-Hurd. Verifying Relative Error Bounds using Symbolic Simulation

12:05-12:25 M. Gligoric, R. Majumdar, R. Sharma, L. Eloussi and D. Marinov. Regression Test Selection for Distributed Software Histories

12:25-12:45 D. Bosnacki, J.-P. Katoen and A. Wijs. GPU-Based Graph Decomposition into Strongly Connected and Maximal End Components

12:45-12:55 D. Beyer, G. Dresler and P. Wendler. Software Verification in the Google App-Engine Cloud

Program on Sunday, July 20th

12:55-13:05 R. Cavada, A. Cimatti, M. Dorigatti, A. Griggio, A. Mariotti, A. Micheli, S. Mover, M. Roveri and S. Tonetta. The nuXmv Symbolic Model Checker

Session 127D (ICLP): Test of Time Award: 10 Years / Technical Session: Constraints and Constraint Handling Rules

10:45-13:00

Chair: Michael Hanus

Location: FH, Hörsaal 8

10:45-11:30 P. Stuckey. Test of Time Award: 10 Years - The Refined Operational Semantics of Constraint Handling Rules

11:30-12:00 G.J. Duck, R. Haemmerlé and M. Sulzmann. On Termination, Confluence and Consistent CHR-based Type Inference

12:00-12:30 D. Gall and T. Frühwirth. Exchanging Conflict Resolution in an Adaptable Implementation of ACT-R

12:30-13:00 A. Saad, T. Frühwirth and C. Gervet. The P-Box CDF-Intervals: Reliable Constraint Reasoning with Quantifiable Information

Session 127E (IJCAR): Equational Reasoning

10:45-13:00

Chair: Deepak Kapur

Location: FH, Hörsaal 5

10:45-11:15 S. Tourret, M. Echenim and N. Peltier. A Rewriting Strategy to Generate Prime Implicates in Equational Logic

11:15-11:45 P. Baumgartner, J. Bax and U. Waldmann. Finite Quantification in Hierarchic Theorem Proving

11:45-12:15 J. Berdine and N. Bjorner. Computing All Implied Equalities via SMT-based Partition Refinement

12:15-12:35 J. Giesl, M. Brockschmidt, F. Emmes, F. Frohn, C. Fuhs, C. Otto, M. Plücker, P. Schneider-Kamp, T. Stroeder, S. Swiderski and R. Thiemann. Proving Termination of Programs Automatically with AProVE

Session 127F (CSF): Usable Security

10:45-12:45

Chair:

Location: FH, Hörsaal 6

10:45-11:15 M. Harbach, S. Fahl and M. Smith. Who's Afraid of Which Bad Wolf? A Survey of IT Security Risk Awareness

11:15-11:45 J. Grossklags and D. Reitter. How task familiarity and cognitive predispositions impact behavior in a security game of timing

11:45-12:45 L. Bauer. Panel: Usability

Session 127G (DL): Contributed Talks

10:45-13:00

Chair:

Location: EI, EI 7

10:45-11:10 B. Cuenca Grau, E. Kharlamov, E. Kostylev and D. Zheleznyakov. Controlled Query Evaluation over Lightweight Ontologies

11:10-11:35 P. Hansen, C. Lutz, I. Seylan and F. Wolter. Query Rewriting under EL TBoxes: Efficient Algorithms

11:35-12:00 B. Motik, Y. Nenov, R. Piro, I. Horrocks and D. Olteanu. Parallel OWL 2 RL Materialisation in Centralised, Main-Memory RDF Systems

12:00-12:25 A. Ahmeti, D. Calvanese and A. Polleres. SPARQL Update for Materialized Triple Stores under DL-Lite_{RDFS} Entailment

12:25-12:50 E.V. Kostylev, J.L. Reutter and D. Vrgoc. XPath for DL-Lite Ontologies

Session 127H (ICLP)

10:45-13:00

Chair:

Location: FH, Seminarraum 107

10:45-11:45 P. Stuckey. Test of Time Award: 10 Years (Talk presented at ICLP Main Conference)

11:45-12:10 M. Morak. The Impact of Disjunction on Reasoning under Existential Rules

12:10-12:35 N. Sharaf. Visualization of Constraint Handling Rules

Program on Sunday, July 20th

12:35-13:00 R. Zese. Reasoning with Probabilistic Logics

Session 127I (NCPROOFS)

10:45-12:45

Chair: Arnon Avron

Location: FH, Seminarraum 104

10:45-11:15 M. Baaz and N. Antidze. Construction and meaning

11:15-11:45 K. Terui. Proof theory for ordered algebra: amalgamation and densification

11:45-12:15 R. Zach and M. Baaz. The Epsilon Calculus and Nonclassical Logics

12:15-12:45 B. Woltzenlogel Paleo. Automated and Interactive Theorem Proving for Modal Logics via embedding into Classical Higher-Order Logic

Session 128 (DL): DL Business Meeting

13:30-14:30

Chair:

Location: EI, EI 7

Session 129A (KR): Tutorial 3 - Alessio Lomuscio: Verification of Multi-Agent Systems against Epistemic Specifications

14:30-16:00

Chair:

Location: EI, EI 10

14:30-16:00 A. Lomuscio. Verification of Multi-Agent Systems against Epistemic Specifications (Part I)

Session 129B (KR): Tutorial 4 - Riccardo Rosati: Query Answering and Rewriting in Ontology-Based Data Access

14:30-16:00

Chair:

Location: EI, EI 9

14:30-16:00 R. Rosati. Query Answering and Rewriting in Ontology-Based Data Access (Part I)

Session 129C (CAV): Biology and Hybrid Systems

14:30-16:00

Chair: Marta Kwiatkowska

Location: FH, Hörsaal 1

14:30-14:40 A. Biere. Hardware Model Checking Competition 2014 CAV Edition

14:40-15:00 H. Kugler, N. Paoletti, B. Yordanov, Y. Hamadi and C.M. Wintersteiger. Analyzing and Synthesizing Genomic Logic Functions

15:00-15:20 B. Cook, J. Fisher, B. Hall, S. Ishtiaq, G. Juniwal and N. Piterman. Finding instability in biological models

15:20-15:40 Z. Huang, C. Fan, A. Mereacre, S. Mitra and M. Kwiatkowska. Invariant verification of nonlinear hybrid automata networks of cardiac cells

15:40-16:00 H. Hansen, S.-W. Lin, Y. Liu, T.K. Nguyen and J. Sun. Diamonds are a Girl's Best Friend: Partial Order Reduction for Timed Automata With Abstractions

Session 129D (ICLP): Technical Session: Semantics

14:30-16:00

Chair: Torsten Schaub

Location: FH, Hörsaal 8

14:30-15:00 C. Antic. On Cascade Products of Answer Set Programs

15:00-15:30 M. Gelfond and Y. Zhang. Vicious Circle Principle and Logic Programs with Aggregates

15:30-16:00 P. Cabalar, J. Fandiño and M. Fink. Causal Graph Justifications of Logic Programs

Session 129E (IJCAR): Verification

14:30-16:00

Chair: Aart Middeldorp

Location: FH, Hörsaal 5

14:30-15:00 M. Horbach and V. Sofronie-Stokkermans. Locality Transfer: From Constrained Axiomatizations to Reachability Predicates

15:00-15:30 T. Stroeder, J. Giesl, M. Brockschmidt, F. Frohn, C. Fuhs, J. Hensel and P. Schneider-Kamp. Proving Termination and Memory Safety for Programs with Pointer Arithmetic

Program on Sunday, July 20th

15:30-16:00 W. Zhang. QBF Encoding of Temporal Properties and QBF-Based Verification

Session 129F (CSF): Cryptography 1

14:30-16:00

Chair:

Location: FH, Hörsaal 6

14:30-15:00 J. Crampton and A. Pinto. Attribute-based Encryption for Access Control Using Elementary Operations

15:00-15:30 A. Malozemoff, J. Katz and M. Green. Automated Analysis and Synthesis of Block-Cipher Modes of Operation

15:30-16:00 J.A. Akinyele, G. Barthe, B. Gregoire, B. Schmidt and P.-Y. Strub. Certified Synthesis of Efficient Batch Verifiers

Session 129G (CAV, CSF, CSL-LICS, FLoC, ICLP, IJCAR, ITP, RTA-TLCA, SAT, VSL): FLoC Olympic Games: Answer Set Programming Modeling Competition 2014

14:30-16:00

Chair:

Location: FH, Hörsaal 2

14:30-16:00 F. Calimeri, M. Gebser, M. Maratea and F. Ricca. FLoC Olympic Games: Answer Set Programming Modeling Competition 2014

Session 129H (ICLP)

14:30-16:00

Chair:

Location: FH, Seminarraum 107

14:30-14:55 H. Stephan. Application of Methods for Syntax Analysis of Context-Free Languages to Query Evaluation of Logic Programs

14:55-15:20 R.A. Aziz. Bound Founded Answer Set Programming

15:20-15:45 A. Saad. CDF-Intervals: A Reliable Framework to Reason about Data with Uncertainty

Session 129I (NCPROOFS)

14:30-16:00

Chair: Revantha Ramanayake

Location: FH, Seminarraum 104

14:30-15:00 A. Guglielmi. Introducing Substitution in Proof Theory

15:00-15:30 N. Olivetti. Conditional logics: the quest for internal proof systems

15:30-16:00 O. Lahav. From Frame Properties to Hypersequent Rules in Modal Logics

Session 130A (KR): Tutorial 3 (Continued) - Alessio Lomuscio: Verification of Multi-Agent Systems against Epistemic Specifications

16:30-18:00

Chair:

Location: EI, EI 10

16:30-18:00 A. Lomuscio. Verification of Multi-Agent Systems against Epistemic Specifications (Part II)

Session 130B (KR): Tutorial 4 (Continued) - Riccardo Rosati: Query Answering and Rewriting in Ontology-Based Data Access

16:30-18:00

Chair:

Location: EI, EI 9

16:30-18:00 R. Rosati. Query Answering and Rewriting in Ontology-Based Data Access (Part II)

Session 130C (CAV): Hybrid Systems

16:30-17:10

Chair: Rajeev Alur

Location: FH, Hörsaal 1

16:30-16:50 W. Hagemann. Reachability Analysis of Hybrid Systems Using Symbolic Orthogonal Projections

Program on Sunday, July 20th

16:50-17:10 A. Cimatti, A. Griggio, S. Mover and S. Tonetta. Verifying LTL properties of hybrid systems with K-liveness

Session 130D (ICLP): ASP Competition Report / Technical Session - Knowledge Representation and Reasoning
16:30-18:00

Chair: Marcello Balduccini

Location: FH, Hörsaal 8

16:30-17:00 F. Calimeri, M. Gebser, M. Maratea and F. Ricca. The Design of the Fifth Answer Set Programming Competition

17:00-17:30 B. Bogaerts, J. Jansen, B. Maurice, B. De Cat, J. Vennekens and M. Denecker. Simulating Dynamic Systems Using Linear Time Calculus Theories

17:30-18:00 H. Hoos, M. Lindauer and T. Schaub. claspfolio 2: Advances in Algorithm Selection for Answer Set Programming

Session 130E (IJCAR): Proof Theory

16:30-18:00

Chair: Jürgen Giesl

Location: FH, Hörsaal 5

16:30-17:00 S. Hetzl, A. Leitsch, G. Reis, J. Tapolczai and D. Weller. Introducing quantified cuts in logic with equality

17:00-17:20 V. Nigam, G. Reis and L. Lima. Quati: An Automated Tool for Proving Permutation Lemmas

17:20-17:40 R. Gore, J. Thomson and J. Wu. A History-Based Theorem Prover for Intuitionistic Propositional Logic using Global Caching: IntHistGC System Description

17:40-18:00 J. Otten. MleanCoP: A Connection Prover for First-Order Modal Logic

Session 130F (CSF): Cryptography 2

16:30-18:00

Chair:

Location: FH, Hörsaal 6

16:30-17:00 C. Culnane and S. Schneider. A Peered Bulletin Board for Robust Use in Verifiable Voting Systems

17:00-17:30 D. Bogdanov, P. Laud, S. Laur and P. Pullonen. From input private to universally composable secure multiparty computation primitives

17:30-18:00 M. Chase, M. Kohlweiss, A. Lysyanskaya and S. Meiklejohn. Malleable Signatures: New Definitions and Delegatable Anonymous Credentials

Session 130G (ICLP)

16:30-17:20

Chair:

Location: FH, Seminarraum 107

16:30-16:55 J. Jansen. Model Revision Inference for Extensions of First Order Logic

16:55-17:20 G. Jaśkiewicz. Logic Programming as Scripting Language for Bots in Computer Games

Session 130H (NCPROOFS)

16:30-18:00

Chair: Melvin Fitting

Location: FH, Seminarraum 104

16:30-17:00 G. Metcalfe. Admissibility and Exact Unification

17:00-17:30 A. Zamansky. What can semantics do for proof theory: the case of Paraconsistent Logics

17:30-18:00 M. Fitting and R. Kuznets. Applications of Nested-Sequent Proof Systems for Modal Logics to the Craig Interpolation Property

Session 131 (CAV): Invited Talk

17:10-18:00

Chair: Armin Biere

Location: FH, Hörsaal 1

17:10-18:00 R. Cleaveland. Automated Testing (preliminary title)

Session 132 (ICLP): Panel Discussion

17:20-18:00

Chair:

Location: FH, Seminarraum 107

Program on Sunday, July 20th

Session 133 (CSF): Business Meeting
18:00-19:00

Chair:

Location: FH, Hörsaal 6

Session 134 (KR): KR Reception followed by VSL Banquet 2
18:30-21:30

Chair:

Location: Schönbrunn

Session 142 (VSL): VSL Banquet 2
19:00-21:30

Chair:

Location: Schönbrunn

Program on Monday, July 21th

Program on Monday, July 21st

Conferences:

CAV: International Conference on Computer Aided Verification

CSF: 2014 IEEE Computer Security Foundations Symposium

ICLP: 30th International Conference on Logic Programming

IJCAR: 7th International Joint Conference on Automated Reasoning (IJCAR)

KR: 14th International Conference on Principles of Knowledge Representation and Reasoning

KR4HC: 6th International Workshop on Knowledge Representation for Health Care

Program on Monday, July 21th

CAV	CAV	CSF	ICLP	ICLP	ICLP
08:45-10:15 Session 144A:VSL Keynote Talk					
10:15-10:45 Coffee Break					
10:45-13:05 CAV Session 138C Games and Synthesis		10:45-12:45 CSF Session 138F Protocol Verification	10:45-13:00 ICLP Session 138D Technical Communications: Track 1 - Knowledge Representation	10:45-13:00 ICLP Session 138G Technical Communications: Track 2 - Systems and Paradigms	10:45-13:00 ICLP Session 138H Technical Communications: Track 3 - Prolog
13:00-14:30 Lunch Break					
14:30-16:00 CAV Session 140C Concurrency	14:30-16:00 CAV Session 140E FLoC Inter- Conference topic: SAT/SMT/QBF	14:30-16:00 CSF Session 140F Information Flow 2	14:30-16:00 ICLP Session 140D Best Doctoral Consortium Talk / Technical Session - Abduction		
16:00-16:30 Coffee Break					
		16:30-17:30 CSF Session 143C Invited Talk	16:30-19:00 Session 151A:VSL Joint Award Ceremony 2		
		17:30-18:30 CSF Session 146 5' Talks			
19:00-20:00 Session 149A:VSL Public Lecture 2			19:00-20:00 ICLP Session 148 Public Meeting of the Association for Logic Programming	19:00-20:00 Session 149A:VSL Public Lecture 2	

Program on Monday, July 21th

IJCAR	KR 08:30-08:40	KR	KR4HC
08:45-10:15 Session 144A:VSL Keynote Talk			08:45-09:00 KR4HC 09:00-10:15 KR4HC Session 137 Modeling Clinical Guidelines
10:15-10:45 Coffee Break			
10:45-13:05 IJCAR Session 138E Modal and Temporal Reasoning	10:45-12:45 KR Session 138A Description Logic 1	10:45-12:45 KR Session 138B Argumentation	10:45-13:00 KR4HC Session 138I Exploring and Assessing Clinical Guidelines
	12:45-13:00 KR	12:45-13:00 KR	
13:00-14:30 Lunch Break			
14:30-16:00 IJCAR Session 140E FLoC Inter- Conference topic: SAT/SMT/QBF	14:30-16:00 KR Session 140A Planning, Strategies, Diagnosis 1	14:30-16:00 KR Session 140B Belief Revision and Nonmonotonicity 1	14:30-15:30 KR4HC Session 140G Keynote: Stefania Montani: Knowledge- Intensive Medical Process Similarity
			15:30-16:00 KR4HC Session 141
16:00-16:50 IJCAR Session 142 Modal Logic	16:00-16:30 Coffee Break		
16:50-17:20 IJCAR Session 144	16:30-17:30 KR Session 143A Knowledge Representation and Reasoning 1	16:30-17:30 KR Session 143B Automated Reasoning and Computation 1	16:30-17:40 KR4HC Session 143D Linking Electronic Patient Records
17:20-18:00 IJCAR Session 145 CADE / FROCOS / TABLEAU / IJCAR	16:30-19:00 Session 151A:VSL Joint Award Ceremony 2		
19:00-20:00 Session 149A:VSL Public Lecture 2			

Program on Monday, July 21th

Session 135 (KR): KR Opening
08:30-08:40

Chair:

Location: EI, EI 7

Session 144A (VSL): VSL Keynote Talk
08:45-10:15

Chair: Thomas Eiter

Location: EI, EI 7 + EI 9, EI 10 + FH, Hörsaal 1

08:45-09:45 F. Baader. VSL Keynote Talk: Ontology-Based Monitoring of Dynamic Systems

Session 136 (KR4HC): Opening
08:45-09:00

Chairs: Silvia Miksch David Riaño

Location: EI, EI 8

Session 137 (KR4HC): Modeling Clinical Guidelines
09:00-10:15

Chair: David Riaño

Location: EI, EI 8

09:00-09:25 Y. Zhang and Z. Zhang. Preliminary Result on Finding Treatments for Patients with Comorbidity

09:25-09:50 V. Zamborlini, M. Da Silveira, C. Pruski, A. Ten Teije and F. Van Harmelen. Towards a Conceptual Model for Enhancing Reasoning about Clinical Guidelines: A case-study on Comorbidity

09:50-10:15 S. Wilk, M. Michalowski, X. Tan and W. Michalowski. Using First-Order Logic to Represent Clinical Practice Guidelines and to Mitigate Adverse Interactions

Session 138A (KR): Description Logic 1
10:45-12:45

Chair: Frank Wolter

Location: EI, EI 7

10:45-11:15 G. Gottlob, M. Manna and A. Pieris. Polynomial Combined Rewritings for Existential Rules

11:15-11:45 M. Bienvenu, D. Calvanese, M. Ortiz and M. Simkus. Nested Regular Path Queries in Description Logics

11:45-12:15 E. Botoeva, R. Kontchakov, V. Ryzhikov, F. Wolter and M. Zakharyashev. Query Inseparability for Description Logic Knowledge Bases

12:15-12:45 A. Ecke, R. Peñaloza and A.-Y. Turhan. Answering Instance Queries Relaxed by Concept Similarity

Session 138B (KR): Argumentation
10:45-12:45

Chair: Leon van der Torre

Location: EI, EI 9

10:45-11:15 P.E. Dunne, W. Dvořák, T. Linsbichler and S. Woltran. Characteristics of Multiple Viewpoints in Abstract Argumentation

11:15-11:45 S. Coste-Marquis, S. Konieczny, J.-G. Maily and P. Marquis. On the Revision of Argumentation Systems: Minimal Change of Arguments Statuses

11:45-12:15 F. Cerutti, M. Giacomin, M. Vallati and M. Zanella. An SCC Recursive Meta-Algorithm for Computing Preferred Labellings in Abstract Argumentation

Program on Monday, July 21th

12:15-12:45 S. Doutre, A. Herzig and L. Perrussel. A Dynamic Logic Framework for Abstract Argumentation

Session 138C (CAV): Games and Synthesis

10:45-13:05

Chair: Barbara Jobstmann

Location: FH, Hörsaal 1

10:45-11:05 R. Bozianu, C. Dima and E. Filiot. Safrless Synthesis for Epistemic Temporal Specifications

11:05-11:25 T. Brazdil, D. Klaska, A. Kucera and P. Novotný. Minimizing Running Costs in Consumption Systems

11:25-11:45 K. Chatterjee, M. Chmelík and P. Dacá. CEGAR for Qualitative Analysis of Probabilistic Systems

11:45-12:05 T. Dillig, I. Dillig and S. Chaudhuri. Optimal Guard Synthesis for Memory Safety

12:05-12:25 J. Alglave, D. Kroening, V. Nimal and D. Poetzl. Don't sit on the fence: A static analysis approach to automatic fence insertion

12:25-12:35 P. Čermák, A. Lomuscio, F. Mogavero and A. Murano. MCMAS-SLK: A Model Checker for the Verification of Strategy Logic Specifications

12:35-12:45 N. Narodytska, A. Legg, F. Bacchus, L. Ryzhyk and A. Walker. Solving Games without Controllable Predecessor

12:45-12:55 C.-H. Cheng, C.-H. Huang, H. Ruess and S. Stattelmann. G4LTL-ST: Automatic Generation of PLC Programs

12:55-13:05 S. Jacobs. SYNTCOMP - Synthesis Competition for Reactive Systems

Session 138D (ICLP): Technical Communications: Track 1 - Knowledge Representation

10:45-13:00

Chair: Ilkka Niemelä

Location: FH, Hörsaal 8

10:45-11:00 A.S. Gomes and J.J. Alferes. Transaction Logic with (Complex) Events

11:00-11:15 M. Abrantes and L.M. Pereira. Properties of Stable Model Semantics Extensions

11:15-11:30 Y. Bi, J.-H. You and Z. Feng. A Well-Founded Semantics for FOL-Programs

11:30-11:45 M. Slota, M. Balaz and J. Leite. On Strong and Default Negation in Answer-Set Program Updates

11:45-12:00 B. Bogaerts, J. Vennekens, M. Denecker and J. Van den Bussche. C-Log: A Knowledge Representation Language of Causality

12:00-12:15 Z. Zhang. ESmodes: An Epistemic Specification Solver

12:15-12:30 R.A. Aziz, G. Chu and P.J. Stuckey. Grounding Bound Founded Answer Set Programs

12:30-12:45 M. Balduccini, W. Regli and D. Nguyen. An ASP-Based Architecture for Autonomous UAVs in Dynamic Environments

Session 138E (IJCAR): Modal and Temporal Reasoning

10:45-13:05

Chair: Renate Schmidt

Location: FH, Hörsaal 5

10:45-11:15 S. Cerrito, A. David and V. Goranko. Optimal tableaux-based decision procedure for testing satisfiability in the Alternating-time temporal logic ATL+

11:15-11:45 J.-B. Jeannin and A. Platzer. dTL²: Differential Temporal Dynamic Logic with Nested Modalities for Hybrid Systems

11:45-12:15 B. Lellmann. Axioms vs Hypersequent Rules with Context Restrictions: Theory and Applications

12:15-12:45 C. Nalon, J. Marcos and C. Dixon. Clausal Resolution for Modal Logics of Confluence

12:45-13:05 R. Gore, J. Thomson and K. Olesen. Implementing Tableaux Calculi Using BDDs: BDDTab System Description

Session 138F (CSF): Protocol Verification

10:45-12:45

Chair:

Location: FH, Hörsaal 6

10:45-11:15 D. Dougherty and J. Guttman. Decidability for Lightweight Diffie-Hellman Protocols

11:15-11:45 M. Liskov and F.J. Thayer. Modeling Diffie-Hellman Derivability for Automated Analysis

11:45-12:15 D. Basin, C. Cremers and M. Horvat. Actor Key Compromise: Consequences and Countermeasures

Program on Monday, July 21th

12:15-12:45 S.A. Mödersheim and G. Katsoris. A Sound Abstraction of the Parsing Problem

Session 138G (ICLP): Technical Communications: Track 2 - Systems and Paradigms

10:45-13:00

Chair: Michael Kifer

Location: FH, Seminarraum 134

10:45-11:00 M. Gavaneli, M. Milano, S. Bragaglia, F. Chesani, E. Marengo and P. Cagnoli. Multi-criteria optimal planning for Energy policies in CLP

11:00-11:15 G. Narboni. Numerical Properties of Min-closed CSPs

11:15-11:30 M. Gebser, R. Kaminski, B. Kaufmann and T. Schaub. Clingo = ASP + Control

11:30-11:45 T. Le, E. Pontelli, T.C. Son and W. Yeoh. Logic and Constraint Logic Programming for Distributed Constraint Optimization

11:45-12:00 J. Heras, E. Komendantskaya and M. Schmidt. Guarding Corecursion in Logic Programming

12:00-12:15 A. Nampally and C.R. Ramakrishnan. Adaptive MCMC-Based Inference in Probabilistic Logic Programs

12:15-12:30 S. Brass. A Framework for Bottom-Up Simulation of SLD-Resolution

Session 138H (ICLP): Technical Communications: Track 3 - Prolog

10:45-13:00

Chair: Jan Wielemaker

Location: FH, Seminarraum 134A

10:45-11:00 A. Saptawijaya and L.M. Pereira. Joint Tabling of Logic Program Abductions and Updates

11:00-11:15 M. Areias and R. Rocha. A Simple and Efficient Lock-Free Hash Trie Design for Concurrent Tabling

11:15-11:30 N. Stulova, J.F. Morales and M.V. Hermenegildo. Towards Assertion-based Debugging of Higher-Order (C)LP Programs

11:30-11:45 J.P. Gallagher and B. Kafle. Analysis and Transformation Tools for Constrained Horn Clause Verification

11:45-12:00 G. Souza Oliveira and A. Faustino Da Silva. Towards an Efficient Prolog System by Code Introspection

12:00-12:15 S. Castro, K. Mens and P. Moura. Customisable Handling of Java References in Prolog Programs

12:15-12:30 P. Tarau and F. Hamid. Entanglement Patterns and Logic Programming Language Constructs

Session 138I (KR4HC): Exploring and Assessing Clinical Guidelines

10:45-13:00

Chair: Silvia Miksch

Location: EI, EI 8

10:45-11:10 M. Spiotta, A. Bottrighi, L. Giordano and D. Theseider Dupre'. Conformance Analysis of the Execution of Clinical Guidelines with Basic Medical Knowledge and Clinical Terminology

11:10-11:35 Z. Huang, A. Ten Teije, F. Van Harmelen and S. Ait-Mokhtar. Semantic Representation of Evidence-based Clinical Guidelines

11:35-12:00 D. Miao and K.K. Waterman. Real Rules, Real Data -- Addressing Challenges of Reasoning HIPAA Privacy Rule in Health Information Exchange (HIE)

12:00-12:15 P. Terenziani, A. Bottrighi, I. Lovotti and S. Rubrichi. META-GLARE: a meta-system for defining your own CIG system: Architecture and Acquisition

12:15-12:30 M. Marcos, J. Torres-Sospedra and B. Martínez-Salvador. Assessment of Clinical Guideline Models Based on Metrics for Business Process Models

12:30-12:45 B. Martínez-Salvador, M. Marcos and A. Sánchez. An Algorithm for Guideline Transformation: from BPMN to PROforma

12:45-13:00 A. Maghsoodi, P. De Bra and A. Bucur. A Process-oriented Methodology for Modelling Cancer Treatment Trial Protocols

Session 139A (KR): 3 Short presentations of 5 minutes each.

12:45-13:00

Chair: Frank Wolter

Location: EI, EI 7

12:45-12:50 W. Beek, S. Schlobach and F. van Harmelen. Rough Set Semantics for Identity on the Web

12:50-12:55 V. Sazonau, U. Sattler and G. Brown. Predicting Performance of OWL Reasoners: Locally or Globally?

Program on Monday, July 21th

12:55-13:00 F. Distel, J. Atif and I. Bloch. Concept Dissimilarity with Triangle Inequality

Session 139B (KR): 3 Short presentations of 5 minutes each.

12:45-13:00

Chair: Leon van der Torre

Location: EI, EI 9

12:45-12:50 R. Booth, E. Awad and I. Rahwan. Interval Methods for Judgment Aggregation in Argumentation

12:50-12:55 S.K. Dyrkolbotn. How to Argue for Anything: Enforcing Arbitrary Sets of Labellings Using AFs

12:55-13:00 I.-A. Diakidoy, A. Kakas, L. Michael and R. Miller. A Psychology-Inspired Approach to Automated Narrative Text Comprehension

Session 140A (KR): Planning, Strategies, Diagnosis 1

14:30-16:00

Chair: Gerhard Lakemeyer

Location: EI, EI 7

14:30-15:00 A. Lomuscio and J. Michaliszyn. An Abstraction Technique for the Verification of Multi-Agent Systems Against ATL Specifications

15:00-15:30 J. Gutierrez, P. Harrenstein and M. Wooldridge. Reasoning about Equilibria in Game-like Concurrent Systems

15:30-16:00 X. Huang and R. Van Der Meyden. A Temporal Logic of Strategic Knowledge

Session 140B (KR): Belief Revision and Nonmonotonicity 1

14:30-16:00

Chair: Jim Delgrande

Location: EI, EI 9

14:30-15:00 P. Peppas and M.-A. Williams. Belief Change and Semiorders

15:00-15:30 P. Everaere, S. Konieczny and P. Marquis. On Egalitarian Belief Merging

15:30-16:00 C.-P. Wirth and F. Stolzenburg. David Poole's Specificity Revised

Session 140C (CAV): Concurrency

14:30-16:00

Chair: Azadeh Farzan

Location: FH, Hörsaal 1

14:30-14:50 M. Lesani, T. Millstein and J. Palsberg. Automatic Atomicity Verification for Clients of Concurrent Data Structures

14:50-15:10 P. Cerny, T. Henzinger, A. Radhakrishna, L. Ryzhyk and T. Tarrach. Regression-free Synthesis for Concurrency

15:10-15:30 O. Inverso, E. Tomasco, B. Fischer, S. La Torre and G. Parlato. Bounded Model Checking of Multi-Threaded C Programs via Lazy Sequentialization

15:30-15:50 J. Esparza, R. Ledesma-Garza, R. Majumdar, P. Meyer and F. Nksic. An SMT-Based Approach to Coverability Analysis

15:50-16:00 A. Sanchez and C. Sanchez. LEAP: A Tool for the Parametrized Verification of Concurrent Datatypes

Session 140D (ICLP): Best Doctoral Consortium Talk / Technical Session - Abduction

14:30-16:00

Chair: Martin Gebser

Location: FH, Hörsaal 8

14:30-15:00 T. Schrijvers. Best Doctoral Consortium Talk

15:00-15:30 L. Caroprese, M. Truszczynski, E. Zumpano and I. Trubitsyna. A Measure of Arbitrariness in Abductive Explanations

15:30-16:00 L. Moniz Pereira, E.-A. Dietz and S. Hölldobler. Contextual Abductive Reasoning with Side-Effects

Session 140E (CAV, IJCAR): FLoC Inter-Conference topic: SAT/SMT/QBF

14:30-16:00

Chair: Pascal Fontaine

Location: FH, Hörsaal 5

14:30-15:00 A. Zeljić, C.M. Wintersteiger and P. Ruemmer. Approximations for Model Construction

15:00-15:20 R. Ehlers and M. Lange. A Tool that Incrementally Approximates Finite Satisfiability in Full Interval Temporal Logic

15:20-15:40 A. Stump, G. Sutcliffe and C. Tinelli. StarExec: a Cross-Community Infrastructure for Logic Solving

Program on Monday, July 21th

15:40-16:00 B. Woltzenlogel Paleo, J. Boudou and A. Fellner. Skeptik [System Description]

Session 140F (CSF): Information Flow 2

14:30-16:00

Chair:

Location: FH, Hörsaal 6

14:30-15:00 W. Rafnsson and A. Sabelfeld. Compositional Information-flow Security for Interactive Systems

15:00-15:30 M. Vanhoef, W. De Groef, D. Devriese, F. Piessens and T. Rezk. Stateful Declassification Policies for Event-Driven Programs

15:30-16:00 M. Alvim, K. Chatzikokolakis, A. McIver, C. Morgan, C. Palamidessi and G. Smith. Additive and multiplicative notions of leakage, and their capacities

Session 140G (KR4HC): Keynote: Stefania Montani: Knowledge-Intensive Medical Process Similarity

14:30-15:30

Chair: Silvia Miksch

Location: EI, EI 8

14:30-15:30 S. Montani. Knowledge-Intensive Medical Process Similarity

Session 141 (KR4HC): Training and Learning

15:30-16:00

Chair: Begoña Martínez-Salvador

Location: EI, EI 8

15:30-15:45 D. Wang, X.H. Le and A. Luque. Development of Digital Repositories of Multimedia Learning Modules and Guideline-Driven Interactive Case Simulation Tools for New York State HIV/HCV/STD Clinical Education Initiative

15:45-16:00 F. Real, D. Riaño and J.-R. Alonso. Training residents in the application of clinical guidelines for differential diagnosis of the most frequent causes of arterial hypertension with decision tables

Session 142 (IJCAR): Modal Logic

16:00-16:50

Chair: Silvio Ghilardi

Location: FH, Hörsaal 5

16:00-16:30 F. Papacchini and R.A. Schmidt. Terminating Minimal Model Generation Procedures for Propositional Modal Logics

16:30-16:50 D. Gorin, D. Pattinson, L. Schröder, T. Wißmann and F. Widmann. COOL -- A Generic Satisfiability Checker For Coalgebraic Logics with Global Assumptions (System Description)

Session 151A (VSL): VSL Joint Award Ceremony 2

16:30-19:00

Chair: Helmut Veith

Location: MB, Kuppelsaal

16:30-18:00 . Floc Olympic Games. FLoC Olympic Games Award Ceremony 2

18:00-18:10 W. Depauli-Schimanovich. Lifetime Achievement Award

18:10-18:20 M. Zhang. Lifetime Achievement Award

18:20-18:30 . European Masters Program In Computational Logic. EMCL Distinguished Alumni Award

18:30-18:45 H. Veith. FLoC Closing Week 2

Session 143A (KR): Knowledge Representation and Reasoning 1

16:30-17:30

Chair: Gerhard Brewka

Location: EI, EI 7

16:30-17:00 S. Tasharofi and E. Ternovska. Generalized Multi-Context Systems

17:00-17:30 P. Zhang and J. Renz. Qualitative Spatial Representation and Reasoning in Angry Birds: the Extended Rectangle Algebra

Session 143B (KR): Automated Reasoning and Computation 1

16:30-17:30

Chair: Thomas Meyer

Location: EI, EI 9

16:30-17:00 I. Razgon. On OBDDs for CNFs of Bounded Treewidth

Program on Monday, July 21th

17:00-17:30 D. Kisa, G. Van den Broeck, A. Choi and A. Darwiche. Probabilistic Sentential Decision Diagrams

Session 143C (CSF): Invited Talk

16:30-17:30

Chair:

Location: FH, Hörsaal 6

16:30-17:30 G. Barthe. New Directions in Computed-Aided Cryptography

Session 143D (KR4HC): Linking Electronic Patient Records

16:30-17:40

Chair: Dongwen Wang

Location: EI, EI 8

16:30-16:55 D. Riaño and A. Solanas. Exploiting the Relation between Environmental Factors and Diseases: A Case Study on COPD

16:55-17:10 O. Beyan, C. Breathnach, S. Collins, C. Debruyne, S. Decker, D. Grant, R. Grant and B. Gurrin.

Towards Linked Vital Registration Data for Reconstituting Families and Creating Longitudinal Health Histories

17:10-17:25 T. Vetterlein and A. Zamansky. A Logic-Based Framework for Medical Assessment Questionnaires

17:25-17:40 M. Hewelt. Process Information and Guidance Systems in the Hospital

Session 144 (IJCAR): In memoriam: Bernhard Gramlich

16:50-17:20

Chair: Maria Paola Bonacina

Location: FH, Hörsaal 5

Session 145 (IJCAR): CADE / FROCOs / TABLEAUX / IJCAR Business Meetings

17:20-18:00

Chair: Maria Paola Bonacina

Location: FH, Hörsaal 5

Session 146 (CSF): 5' Talks

17:30-18:30

Chair:

Location: FH, Hörsaal 6

Session 147 (KR4HC): Wrap-Up, Conclusion, and Next Steps

17:40-18:00

Chairs: Silvia Miksch David Riaño

Location: EI, EI 8

Session 149A (VSL): VSL Public Lecture 2

19:00-20:00

Chair:

Location: MB, Kuppelsaal

19:00-20:00 F. Stadler. VSL Public Lecture: Vienna Circle(s) - Between Philosophy and Science in Cultural Context

Session 148 (ICLP): Public Meeting of the Association for Logic Programming

19:00-20:00

Chair: Gopal Gupta

Location: FH, Hörsaal 8

Program on Tuesday, July 22nd

Program on Tuesday, July 22nd

Conferences:

VSL: Vienna Summer of Logic 2014

FLoC: Federated Logic Conference 2014

CAV: International Conference on Computer Aided Verification

CSF: 2014 IEEE Computer Security Foundations Symposium

ICLP: 30th International Conference on Logic Programming

IJCAR: 7th International Joint Conference on Automated Reasoning (IJCAR)

KR: 14th International Conference on Principles of Knowledge Representation and Reasoning

GeTFun: Workshop on Compositional Meaning in Logic

Program on Tuesday, July 22nd

VSL	FLoC	CAV	CSF	ICLP	IJCAR
08:45-10:15 Session 156:VSL Keynote Talk					
10:15-10:45 Coffee Break					
		10:45-13:05 CAV Session 149C FLoC Inter- Conference Topic: SAT/SMT/QBF	10:45-12:45 CSF Session 149F Network Security	10:45-13:00 ICLP Session 149D Test of Time Award: 20 Years / Technical Session- Constraint Programming	10:45-13:05 IJCAR Session 149C FLoC Inter- Conference Topic: SAT/SMT/QBF
13:00-14:30 Lunch Break					
		14:30-16:10 CAV Session 151C Bounds and Termination	14:30-15:30 CSF Session 151F Invited Talk 15:30-16:00 CSF Session 152	14:30-16:00 ICLP Session 151D Invited Talk / Technical Session - Program Analysis	14:30-16:00 IJCAR Session 151E Description Logic
16:00-16:30 Coffee Break					
		16:40-17:30 CAV Session 154 Abstraction 17:30-18:30 CAV Session 156 Business Meeting	16:30-18:30 CSF Session 153C Privacy 2	16:30-18:00 ICLP Session 153A Technical Session - Answer Set Programming	16:30-18:10 IJCAR Session 153B Knowledge Representation & Reasoning
18:00-19:00 VSL Session 157 SIGLOG Meeting	18:00-19:00 FLoC Session 157 SIGLOG Meeting				

Program on Tuesday, July 22nd

IJCAR	KR	KR	GeTFun
08:45-10:15 Session 156:VSL Keynote Talk			
10:15-10:45 Coffee Break			
10:45-13:00 IJCAR Session 149E Invited talk & Complexity	10:45-12:15 KR Session 149A Description Logic 2	10:45-12:15 KR Session 149B Belief Revision and Nonmonotonicity 2	10:45-13:00 GeTFun Session 149G
	12:15-13:05 KR Session 150A 10 short presentations of 5 minutes each.	12:15-13:00 KR Session 150B 9 short presentations of 5 minutes each.	
13:00-14:30 Lunch Break			
	14:30-16:00 KR Session 151A Reasoning about Actions and Processes 1	14:30-16:00 KR Session 151B Automated Reasoning and Computation 2	14:30-16:00 GeTFun Session 151G
16:00-16:30 Coffee Break			
	16:30-17:00 KR Session 153D		16:30-18:00 GeTFun Session 153E
	17:00-18:30 KR Session 155 Poster Session		
	19:30-21:30 KR Session 158 KR Banquet		

Program on Tuesday, July 22nd

Session 156 (VSL): VSL Keynote Talk
08:45-10:15

Chair: Helmut Veith

Location: EI, EI 7 + EI 9, EI 10 + FH, Hörsaal 1

08:45-09:45 E. Clarke. VSL Keynote Talk: Verification of Computer Systems with Model Checking

Session 149A (KR): Description Logic 2
10:45-12:15

Chair: Diego Calvanese

Location: EI, EI 7

10:45-11:15 B. Konev, C. Lutz, A. Ozaki Rivera Castillo and F. Wolter. Exact Learning of Lightweight Description Logic Ontologies

11:15-11:45 Y. Ibanez-Garcia, C. Lutz and T. Schneider. Finite Model Reasoning in Horn Description Logics

11:45-12:15 V. Gutiérrez Basulto, J.C. Jung and T. Schneider. Lightweight Description Logics and Branching Time: a Troublesome Marriage

Session 149B (KR): Belief Revision and Nonmonotonicity 2
10:45-12:15

Chair: Mirek Truszczyński

Location: EI, EI 9

10:45-11:15 M. Oveisi, J.P. Delgrande, F.J. Pelletier and F. Popowich. Belief Change and Base Dependence

11:15-11:45 D. Grossi and W. Van Der Hoek. Justified Beliefs by Justified Arguments

11:45-12:15 A. Herzig. Belief Change Operations: A Short History of Nearly Everything, Told in Dynamic Logic of Propositional Assignments

Session 149C (CAV, IJCAR): FLoC Inter-Conference Topic: SAT/SMT/QBF
10:45-13:05

Chair: Natasha Sharygina

Location: FH, Hörsaal 1

10:45-11:05 M. Veanes, N. Björner, L. Nachmanson and S. Bereg. Monadic Decomposition

11:05-11:25 T. Liang, A. Reynolds, C. Tinelli, C. Barrett and M. Deters. A DPLL(T) Theory Solver for a Theory of Strings and Regular Expressions

11:25-11:45 A. Nadel. Bit-Vector Rewriting with Automatic Rule Generation

11:45-12:05 L. Hadarean, C. Barrett, D. Jovanović, C. Tinelli and K. Bansal. A Tale of Two Solvers: Eager and Lazy Approaches to Bit-vectors

12:05-12:25 A. Voronkov. AVATAR: The New Architecture for First-Order Theorem Provers

12:25-12:45 R. Piskac, T. Wies and D. Zufferey. Automating Separation Logic with Trees and Data

12:45-12:55 A. Tiwari and P. Lincoln. A Nonlinear Real Arithmetic Fragment

12:55-13:05 B. Dutertre. Yices 2.2

Session 149D (ICLP): Test of Time Award: 20 Years / Technical Session- Constraint Programming
10:45-13:00

Chair: Neng-Fa Zhou

Location: FH, Hörsaal 8

10:45-11:30 P. Van Hentenryck. Test of Time Awards: 20 Years - CLP(Intervals) Revisited

11:30-12:00 R. Amadini, M. Gabbriellini and J. Mauro. SUNNY: a Lazy Portfolio Approach for Constraint Solving

12:00-12:30 R. Bartak and N.-F. Zhou. Using Tabled Logic Programming to Solve the Petrobras Planning Problem

12:30-13:00 V. Nigam, C. Olarte and E. Pimentel. A Proof Theoretic Study of Soft Concurrent Constraint Programming

Session 149E (IJCAR): Invited talk & Complexity
10:45-13:00

Chair: Christoph Weidenbach

Location: FH, Hörsaal 5

10:45-11:45 K. McMillan. Structured Search and Learning

11:45-12:15 O. Beyersdorff and L. Chew. The Complexity of Theorem Proving in Circumscription and Minimal Entailment

Program on Tuesday, July 22nd

12:15-12:45 L. Bozzelli and C. Sanchez. Visibly Linear Temporal Logic

Session 149F (CSF): Network Security

10:45-12:45

Chair:

Location: FH, Hörsaal 6

10:45-11:15 B. Johnson, A. Laszka and J. Grossklags. The Complexity of Estimating Systematic Risk in Networks

11:15-11:45 R. Vigo, F. Nielson and H.R. Nielson. Automated Generation of Attack Trees

11:45-12:15 P. Adão, C. Bozzato, G.-L. Dei Rossi, R. Focardi and F. Luccio. Mignis: A semantic based tool for firewall configuration

12:15-12:45 M. Bugliesi, S. Calzavara, R. Focardi, W. Khan and M. Tempesta. Provably Sound Browser-Based Enforcement of Web Session Integrity

Session 149G (GeTFun)

10:45-13:00

Chair:

Location: FH, Hörsaal 4

10:45-11:30 A. Avron. Semi-implication and matrices

11:30-12:00 H. Macedo and H. Huesler. Yoneda's embedding and Post-completeness

12:00-12:30 S. Marcelino, C. Caleiro and J. Marcos. On the characterization of broadly truth-functional logics

12:30-13:00 H. Santos, B. Bedregal, R. Santiago and J. Marcos. On non-deterministic fuzzy negations

Session 150A (KR): 10 short presentations of 5 minutes each.

12:15-13:05

Chair: Diego Calvanese

Location: EI, EI 7

12:15-12:20 M. Duckham, S. Li, W. Liu and Z. Long. On Redundant Topological Constraints (Extended Abstract)

12:20-12:25 V. Fionda, C. Gutierrez and G. Pirró. Knowledge Maps of Web Graphs

12:25-12:30 V. Belle and G. Lakemeyer. On the Progression of Knowledge in Multiagent Systems

12:30-12:35 A. Sideris and Y. Dimopoulos. Heuristic Guided Optimization for Propositional Planning

12:35-12:40 F. Patrizi and S. Vassos. Action Theories over Generalized Databases with Equality Constraints (Extended Abstract)

12:40-12:45 L. Morgenstern. Representing and Reasoning About Time Travel Narratives: Foundational Concepts

12:45-12:50 Y. Shen and X. Zhao. Canonical Logic Programs are Succinctly Incomparable with Propositional Formulas

12:50-12:55 S. De Clercq, K. Batters, S. Schockaert, M. De Cock and A. Nowé. Using Answer Set Programming for Solving Boolean Games

12:55-13:00 M. Gebser, T. Janhunen and J. Rintanen. ASP Encodings of Acyclicity Properties

13:00-13:05 M. Bartholomew and J. Lee. Stable Models of Multi-Valued Formulas: Partial vs. Total Functions

Session 150B (KR): 9 short presentations of 5 minutes each.

12:15-13:00

Chair: Mirek Truszczyński

Location: EI, EI 9

12:15-12:20 Y. Zhou. First-Order Default Logic Revisited

12:20-12:25 P. Cabalar and M. Diéguez. Strong Equivalence of Non-monotonic Temporal Theories

12:25-12:30 V. Dufour-Lussier, A. Hermann, F. Le Ber and J. Lieber. Belief Revision in the Propositional Closure of a Qualitative Algebra

12:30-12:35 M. Ribeiro and R. Wassermann. Minimal Change in AGM Revision for Non-classical Logics

12:35-12:40 J. Delgrande. Toward a Knowledge Level Analysis of Forgetting

12:40-12:45 L.M. Pereira, E.-A. Dietz and S. Hölldobler. An Abductive Reasoning Approach to the Belief-Bias Effect

12:45-12:50 C. Girlea, E. Amir and R. Girju. Tracking Beliefs and Intentions in the Werewolf Game

12:50-12:55 G. Aucher. Axioms .2 and .4 as Interaction Axioms

12:55-13:00 X. Parent and L. van der Torre. Aggregative Deontic Detachment for Normative Reasoning

Session 151A (KR): Reasoning about Actions and Processes 1

14:30-16:00

Chair: Fangzhen Lin

Location: EI, EI 7

14:30-15:00 G. Lakemeyer and H.J. Levesque. Decidable Reasoning in a Fragment of the Epistemic Situation Calculus

15:00-15:30 A. Lomuscio and J. Michaliszyn. Model Checking Unbounded Artifact-Centric Systems

Program on Tuesday, July 22nd

15:30-16:00 B. Bagheri Hariri, D. Calvanese, A. Deutsch and M. Montali. State-Boundedness for Decidability of Verification in Data-Aware Dynamic Systems

Session 151B (KR): Automated Reasoning and Computation 2

14:30-16:00

Chair: Tomi Janhunen

Location: EI, EI 9

14:30-15:00 G. Van den Broeck, W. Meert and A. Darwiche. Skolemization for Weighted First-Order Model Counting

15:00-15:30 H. Strass and J.P. Wallner. Analyzing the Computational Complexity of Abstract Dialectical Frameworks via Approximation Fixpoint Theory

15:30-16:00 R. De Haan and S. Szeider. The Parameterized Complexity of Reasoning Problems Beyond NP

Session 151C (CAV): Bounds and Termination

14:30-16:10

Chair: Pavol Cerny

Location: FH, Hörsaal 1

14:30-14:50 M. Sinn, F. Zuleger and H. Veith. A Simple and Scalable Static Analysis for Bound Analysis and Amortized Complexity Analysis

14:50-15:10 R. Madhavan and V. Kuncak. Symbolic Resource Bound Inference for Functional Programs

15:10-15:30 D. Larraz, K. Nimkar, A. Oliveras, E. Rodríguez-Carbonell and A. Rubio. Proving Non-termination Using Max-SMT

15:30-15:50 M. Heizmann, J. Hoenicke and A. Podelski. Termination Analysis by Learning Terminating Programs

15:50-16:10 A. Kupriyanov and B. Finkbeiner. Causal Termination of Multi-threaded Programs

Session 151D (ICLP): Invited Talk / Technical Session - Program Analysis

14:30-16:00

Chair: Michael Leuschel

Location: FH, Hörsaal 8

14:30-15:30 A. Rybalchenko. (Quantified) Horn Constraint Solving for Program Verification and Synthesis

15:30-16:00 A. Serrano, P. Lopez-Garcia and M.V. Hermenegildo. Resource Usage Analysis of Logic Programs via Abstract Interpretation Using Sized Types

Session 151E (IJCAR): Description Logic

14:30-16:00

Chair: Peter Baumgartner

Location: FH, Hörsaal 5

14:30-15:00 P. Koopmann and R.A. Schmidt. Count and Forget: Uniform Interpolation of SHQ-Ontologies

15:00-15:30 A. Steigmiller, B. Glimm and T. Liebig. Coupling Tableau Algorithms for Expressive Description Logics with Completion-Based Saturation Procedures

15:30-16:00 D. Carral, C. Feier, B. Cuenca Grau, P. Hitzler and I. Horrocks. EL-ifying Ontologies

Session 151F (CSF): Invited Talk

14:30-15:30

Chair:

Location: FH, Hörsaal 6

14:30-15:30 A. Acquisti. Privacy in the Age of Augmented Reality

Session 151G (GeTFun)

14:30-16:00

Chair:

Location: FH, Hörsaal 4

14:30-15:00 J.-Y. Béziau. Non truth-functional bivalent logics extending classical bivalent logics

15:00-15:30 S. Molick and J. Marcos. A survey on Suszko's Thesis and its formal developments

Program on Tuesday, July 22nd

15:30-16:00 A. Avron, B. Konikowska and A. Zamansky. Effective first-order reasoning about incomplete and inconsistent information

Session 152 (CSF): Privacy 1
15:30-16:00

Chair:

Location: FH, Hörsaal 6

15:30-16:00 J. Liu, M. Ryan and L. Chen. Balancing Societal Security and Individual Privacy: Accountable Escrow System

Session 153A (ICLP): Technical Session - Answer Set Programming
16:30-18:00

Chair: Marc Denecker

Location: FH, Hörsaal 8

16:30-17:00 K. Marple and G. Gupta. Dynamic Consistency Checking in Goal-Directed Answer Set Programming

17:00-17:30 M. Alviano, C. Dodaro and F. Ricca. Anytime Computation of Cautious Consequences in Answer Set Programming

17:30-18:00 I. Tachmazidis, G. Antoniou and W. Faber. Efficient Computation of the Well-Founded Semantics over Big Data

Session 153B (IJCAR): Knowledge Representation & Reasoning
16:30-18:10

Chair: Geoff Sutcliffe

Location: FH, Hörsaal 5

16:30-17:00 İ. Ceylan and R. Peñaloza. The Bayesian Description Logic BEL

17:00-17:30 M. Beeson and L. Wos. Otter proofs of theorems in Tarskian geometry

17:30-17:50 N. Olivetti and G.L. Pozzato. NESCOND: an Implementation of Nested Sequent Calculi for Conditional Logics

17:50-18:10 A. Pease and S. Schulz. Knowledge Engineering for Large Ontologies with Sigma KEE 3.0

Session 153C (CSF): Privacy 2
16:30-18:30

Chair:

Location: FH, Hörsaal 6

16:30-17:00 M. Backes, P. Manoharan and E. Mohammadi. TUC: Time-sensitive and Modular Analysis of Anonymous Communication

17:00-17:30 J. Hsu, M. Gaboardi, A. Haeberlen, S. Khanna, A. Narayan, B. Pierce and A. Roth. Differential Privacy: An Economic Method for Choosing Epsilon

17:30-18:00 G. Barthe, M. Gaboardi, E.J. Gallego Arias, J. Hsu, C. Kunz and P.-Y. Strub. Proving differential privacy in Hoare logic

18:00-18:30 J. Mayer. Surveillance and Privacy

Session 153D (KR): DC Minute Madness
16:30-17:00

Chairs: Birte Glimm Adrian Pearce

Location: EI, EI 7

Session 153E (GeTFun)
16:30-18:00

Chair:

Location: FH, Hörsaal 4

16:30-17:15 R. Kuznets. Separating truth and proof in the Logic of Proofs

Session 154 (CAV): Abstraction
16:40-17:30

Chair: Doron Peled

Location: FH, Hörsaal 1

16:40-17:00 J. Birgmeier, A.R. Bradley and G. Weissenbacher. Counterexample to Induction-Guided Abstraction-Refinement (CTIGAR)

17:00-17:20 S. Lee and K.A. Sakallah. Unbounded Scalable Verification Based on Approximate Property-Directed Reachability and Datapath Abstraction

Program on Tuesday, July 22nd

17:20-17:30 A. Cox, B.-Y.E. Chang and S. Sankaranarayanan. QUICr: A Reusable Library for Parametric Abstraction of Sets and Numbers

Session 155 (KR): Poster Session
17:00-18:30

Chairs: Birte Glimm Adrian Pearce
Location: EI, Foyer

Session 156 (CAV): Business Meeting
17:30-18:30

Chair:
Location: FH, Hörsaal 1

Session 157 (FLoC, VSL): SIGLOG Meeting
18:00-19:00

Chair:
Location: FH, Hörsaal 8

Session 158 (KR): KR Banquet
19:30-21:30

Chair:
Location: Naturhistorisches Museum

Program on Wednesday, July 23rd

Conferences:

KR: 14th International Conference on Principles of Knowledge Representation and Reasoning
ARQNL: Automated Reasoning in Quantified Non-Classical Logics
ARW-DT: Joint Automated Reasoning Workshop and Deduktionstreffen
ASPOCP: 7th Workshop on Answer Set Programming and Other Computing Paradigms
FRIDA: Workshop on Formal Reasoning in Distributed Algorithms
GeTFun: Workshop on Compositional Meaning in Logic
HSB: 3rd International Workshop on Hybrid Systems and Biology
PAAR: 4th Workshop on Practical Aspects of Automated Reasoning
PRUV: First Workshop on Logics for Reasoning about Preferences, Uncertainty, and Vagueness
RS: Reactive Systems: Directions in Development and Analysis
SYNT: 3rd Workshop on Synthesis
Vampire: The Vampire Workshop
VERIFY: 8th International Verification Workshop
VeriSure: Second VeriSure Workshop
WING: 5th International Workshop on Invariant Generation

Program on Wednesday, July 23rd

KR	KR	ARQNL	ARW-DT	ASPOCP	FRIDA
09:00-10:15 KR Session 161A KR Invited Talk: Tony Cohn (Knowledge Representation meets Computer Vision: From Pixels			08:45-10:15 ARW-DT Session 159F Invited Talk and Contributed Talk	09:10-09:25 ASPOCP 09:25-10:15 ASPOCP Session 164 Theory	08:55-09:00 09:00-10:15 FRIDA Session 161B Invited talk: Joseph Halpern
10:15-10:45 Coffee Break					
10:45-13:00 KR Session 166A Description Logic 3	10:45-13:00 KR Session 166B Reasoning about Actions and Processes 2	10:50-11:00 11:00-13:00 ARQNL Session 168 First-Order Modal Logics, Quantified Dynamic and Temporal Logic, Problem Libraries	10:45-12:15 ARW-DT Session 166L Contributed Talks 12:15-13:15 ARW-DT Session 171B Verification: Contributed Talks	10:45-11:35 ASPOCP Session 166C Semantics 11:35-11:45 11:45-13:00 ASPOCP Session 170A Dynamic Domains and Action Languages	10:45-13:00 FRIDA Session 166J Contributed Talks 1
13:00-14:30 Lunch Break					
14:30-16:00 KR Session 172A Knowledge Representation and Reasoning 2	14:30-16:00 KR Session 172B Reports from the Field	14:30-16:00 ARQNL Session 172E Common Logic, Higher-Order Nominal Modal Logic, First-Order	14:30-16:00 ARW-DT Session 172J Contributed Talks	14:45-16:00 ASPOCP Session 173A Applications	14:30-15:45 FRIDA Session 172I Invited talk: Ahmed Bouajjani
16:00-16:30 Coffee Break					
16:30-18:00 KR Session 175A Planning, Strategies and Diagnosis 2	16:30-18:00 KR Session 175B Uncertainty	16:30-18:00 ARQNL Session 175G Logic with Partial Functions, First- Order Sequent Logics, Discussion	16:30-18:00 ARW-DT Session 175I Evaluation, Sets, Tableaux	16:30-18:10 ASPOCP Session 175C Systems, Tools, and Frameworks	16:30-18:30 FRIDA Session 175K Contributed Talks 2
18:30-19:45 KR Session 179 KR Great Moments Invited Talk : Sheila McIlraith (Situation Calculus: The last 15 years)			18:00-19:00 ARW-DT Session 177 Business Meeting	18:10-18:20	
19:45-20:00 KR					

Program on Wednesday, July 23rd

GeTFun	HSB	PAAR	PRUV	RS	SYNT
08:45-10:15 GeTFun Session 159E	08:45-10:15 HSB Session 159C Invited Talk (Guet); Contributed Talk (Stewart)	08:45-10:15 PAAR Session 159D Superposition I	09:00-09:15 PRUV Session 161C Opening	08:45-10:15 RS Session 159A Invited talks: Scott; Benveniste	08:55-10:15 SYNT Session 160A Introduction & Invited Talk 1
			09:15-10:15 PRUV Session 163 Invited Talk		
10:15-10:45 Coffee Break					
10:45-13:00 GeTFun Session 166K	10:45-13:00 HSB Session 166H Tutorial (Donze), Collaboration Success Stories (Fanchon, de Jong, Halasz)	10:45-13:00 PAAR Session 166I Meta-methods for theorem proving	10:45-12:15 PRUV Session 166M Vagueness to some degree	10:45-13:00 RS Session 166D Invited talks: Hoare; Grumberg; Kwiatkowska; Maoz	10:45-12:45 SYNT Session 166E Contributed Talks 1
13:00-14:30 Lunch Break					
14:30-16:00 GeTFun Session 172K	14:30-16:00 HSB Session 172G Tutorial (Antoniotti), Contributed Talk (Dreossi)	14:30-16:00 PAAR Session 172H Superposition II	14:30-16:00 PRUV Session 172L Reasoning for Vagueness perhaps	14:30-16:00 RS Session 172C Invited talks: Henzinger; Kugler; Fisher	
					14:45-16:00 SYNT Session 173B Invited Talk 2
16:00-16:30 Coffee Break					
16:30-18:00 GeTFun Session 175L		16:30-18:00 PAAR Session 175J Proving and Disproving	16:30-18:00 PRUV Session 175M Favorite reasoning procedures for preferences	16:30-18:15 RS Session 175D Invited talks: Clarke; Dershowitz; Vardi	16:30-18:00 SYNT Session 175E Special Session on Competitions: SyGuS & SyntComp

Program on Wednesday, July 23rd

Vampire	VERIFY	VeriSure	WING
	08:45-10:15 VERIFY Session 159F Invited Talk and Contributed Talk	08:45-09:45 VeriSure Session 159B Partial/Semi-Formal Assurance and Verification 09:45-10:15 VeriSure Session 165 Discussion	08:45-10:15 WING Session 159F Invited Talk and Contributed Talk
10:15-10:45 Coffee Break			
10:45-13:00 Vampire Session 166F Vampire Tutorial and Regular Talks	10:45-12:15 VERIFY Session 166L Contributed Talks	10:45-11:45 VeriSure Session 166G Making Hard Assurance Problems Feasible	10:45-12:15 WING Session 166L Contributed Talks
		11:45-12:15 VeriSure Session 170B Discussion	
	12:15-13:15 VERIFY Session 171B Verification: Contributed Talks	12:15-13:00 VeriSure Session 171A Human Interfaces and Medical Devices, and discussion	12:15-13:15 WING Session 171B Verification: Contributed Talks
13:00-14:30 Lunch Break			
14:30-16:00 Vampire Session 172D Invited Talk by Jasmin Blanchette, Discussions		14:30-15:30 VeriSure Session 172F Assurance for Secure Systems	14:30-16:00 WING Session 172J Contributed Talks
		15:30-16:00 VeriSure Session 174 Discussion	
16:00-16:30 Coffee Break			
16:30-18:00 Vampire Session 175F Vampire Regular Talks		16:30-17:30 VeriSure Session 175H Assurance and Probability	16:30-18:00 WING Session 175I Evaluation, Sets, Tableaux
		17:30-18:00 VeriSure Session 176 Discussion and	

Program on Wednesday, July 23rd

Session 159A (RS): Invited talks: Scott; Benveniste
08:45-10:15

Chair:

Location: FH, Zeichensaal 3

08:45-09:30 D. Scott. Stochastic Lambda Calculus - An Appeal

09:30-10:15 A. Benveniste. Contracts for System Design

Session 159B (VeriSure): Partial/Semi-Formal Assurance and Verification
08:45-09:45

Chair:

Location: FH, Hörsaal 2

08:45-09:15 T. Kelly and I. Habli. Balancing the Formal and Informal in Safety Case Arguments

09:15-09:45 S. Arlt, J. Murray, P. Ruemmer and M. Schäf. Quantification of Verification Progress

Session 159C (HSB): Invited Talk (Guet); Contributed Talk (Stewart)
08:45-10:15

Chair:

Location: FH, Seminarraum 101A

08:45-09:45 C. Guet. Synthetic Systems Biology

09:45-10:15 D. Stewart, S. Gilmore and M. Cousin. FM-Sim : A Hybrid Protocol Simulator of Fluorescence Microscopy Neuroscience Assays with Integrated Bayesian Inference

Session 159D (PAAR): Superposition I
08:45-10:15

Chair:

Location: FH, Hörsaal 7

08:45-09:15 S. Tourret, M. Echenim and N. Peltier. A Deductive-Complete Constrained Superposition Calculus for Ground Flat Equational Clauses

09:15-10:15 U. Waldmann. Invited talk: Hierarchic Superposition Revisited

Session 159E (GeTFun)
08:45-10:15

Chair:

Location: FH, Hörsaal 4

08:45-09:30 N. Galatos. From display logic to nested sequents via residuated frames

09:30-10:15 P. Cintula. First-order non-classical logics: an order-based approach

Session 159F (ARW-DT, VERIFY, WING): Invited Talk and Contributed Talk
08:45-10:15

Chair:

Location: FH, Hörsaal 3

08:45-09:45 C. Schürmann. Chasing the Perfect Specification

09:45-10:15 P. Schmitt and M. Ulbrich. Typed First-Order Logic

Session 160A (SYNT): Introduction & Invited Talk 1
08:55-10:15

Chair:

Location: FH, Seminarraum 101B

08:55-10:10 V. Kuncak. Automating Deductive Synthesis with Leon (Invited Talk)

Session 160B (FRIDA): Opening
08:55-09:00

Chair:

Location: FH, Seminarraum 104

Program on Wednesday, July 23rd

Session 161A (KR): KR Invited Talk: Tony Cohn (Knowledge Representation meets Computer Vision: From Pixels to Symbolic Activity Descriptions)
09:00-10:15

Chair: Chitta Baral

Location: EI, EI 7

09:00-10:15 T. Cohn. Knowledge Representation Meets Computer Vision: From Pixels to Symbolic Activity Descriptions

Session 161B (FRIDA): Invited talk: Joseph Halpern
09:00-10:15

Chair:

Location: FH, Seminarraum 104

09:00-10:15 J. Halpern. Beyond Nash Equilibrium: Solution Concepts for the 21st Century

Session 161C (PRUV): Opening
09:00-09:15

Chair:

Location: FH, Seminarraum 107

Session 162 (ASPOCP): Opening Remarks
09:10-09:25

Chair:

Location: FH, Seminarraum 138A

Session 163 (PRUV): Invited Talk
09:15-10:15

Chair:

Location: FH, Seminarraum 107

Session 164 (ASPOCP): Theory
09:25-10:15

Chair:

Location: FH, Seminarraum 138A

09:25-09:50 S. Tasharofi and E. Ternovska. Supported Semantics for Modular Systems
09:50-10:15 A. Harrison, V. Lifschitz, D. Pearce and A. Valverde. Infinitary Equilibrium Logic

Session 165 (VeriSure): Discussion
09:45-10:15

Chair:

Location: FH, Hörsaal 2

Session 166A (KR): Description Logic 3
10:45-13:00

Chair: Peter Patel-Schneider

Location: EI, EI 7

10:45-11:15 G. Gottlob, A. Hernich, C. Kupke and T. Lukasiewicz. Stable Model Semantics for Guarded Existential Rules and Description Logics

11:15-11:45 M. Ludwig and B. Konev. Practical Uniform Interpolation and Forgetting for ALC TBoxes with Applications to Logical Difference

11:45-12:15 M. Krötzsch and S. Rudolph. Nominal Schemas in Description Logics: Complexities Clarified

Program on Wednesday, July 23rd

12:15-12:45 S. Borgwardt, F. Distel and R. Peñaloza. Decidable Gödel Description Logics without the Finitely-Valued Model Property

Session 166B (KR): Reasoning about Actions and Processes 2
10:45-13:00

Chair: Mikhail Soutchanski

Location: EI, EI 9

10:45-11:15 F. Lin. A First-Order Semantics for Golog and ConGolog under a Second-Order Induction Axiom for Situations

11:15-11:45 V. Belle and H. Levesque. How To Progress Beliefs in Continuous Domains

11:45-12:15 C. Ewin, A. Pearce and S. Vassos. Transforming Situation Calculus Action Theories for Optimised Reasoning

12:15-12:45 D. Rajaratnam, H. Levesque, M. Pagnucco and M. Thielscher. Forgetting in Action

Session 166C (ASPOCP): Semantics
10:45-11:35

Chair:

Location: FH, Seminarraum 138A

10:45-11:10 M. Gelfond, P. Kahl, R. Watson and Y. Zhang. A Refinement of the Language of Epistemic Specifications

11:10-11:35 E. Balai and P. Kahl. Epistemic Logic Programs with Sorts

Session 166D (RS): Invited talks: Hoare; Grumberg; Kwiatkowska; Maoz
10:45-13:00

Chair:

Location: FH, Zeichensaal 3

10:45-11:30 T. Hoare. A Geometric Model for Concurrent Programming

11:30-12:00 O. Grumberg. Automated Abstraction-Refinement for the Verification of Behavioral UML Models

12:00-12:30 M. Kwiatkowska. Probabilistic model checking at the nanoscale: from molecular signalling to molecular walkers

12:30-13:00 S. Maoz. A Short Story on Scenarios

Session 166E (SYNT): Contributed Talks 1
10:45-12:45

Chair:

Location: FH, Seminarraum 101B

10:45-11:15 A. Gascon and A. Tiwari. Synthesis of a simple self stabilizing system

11:15-11:45 H. Wiklicky. Program Synthesis and Linear Operator Semantics

11:45-12:15 R. Bloem, R. Ehlers, S. Jacobs and R. Koenighofer. How to Handle Assumptions in Synthesis

12:15-12:45 A. Bohy, V. Bruyère and J.-F. Raskin. Symblicit algorithms for optimal strategy synthesis in monotonic Markov decision processes

Session 166F (Vampire): Vampire Tutorial and Regular Talks
10:45-13:00

Chair: Andrei Voronkov

Location: FH, Seminarraum 134

10:45-12:00 L. Kovacs and A. Voronkov. First-Order Theorem Proving with Vampire

12:00-12:30 A. Gupta. Proofs in Vampire

12:30-13:00 G. Reger, M. Suda and A. Voronkov. Playing with AVATAR

Session 166G (VeriSure): Making Hard Assurance Problems Feasible
10:45-11:45

Chair:

Location: FH, Hörsaal 2

10:45-11:15 H. Hungar and M. Meyer Zu Hörste. Introducing Semi-Formal Specifications into a Distributed Development Process

Program on Wednesday, July 23rd

11:15-11:45 K. Namjoshi. Witnessing an SSA Transformation

Session 166H (HSB): Tutorial (Donze), Collaboration Success Stories (Fanchon, de Jong, Halasz)
10:45-13:00

Chair:

Location: FH, Seminarraum 101A

10:45-11:30 A. Donze. Tutorial: Simulation-based Parameter Synthesis in Systems Biology

11:30-12:00 E. Fanchon. Collaboration success stories: Modeling Iron Homeostasis in Mammalian Cells (with J.M. Moulis)

12:00-12:30 H. de Jong. Collaboration success stories: Control of Gene Expression in E.coli (with Hans Geiselman)

12:30-13:00 A. Halasz. Collaboration success stories: Membrane-bound Receptor Imaging, Data Analysis and Model Building (with J.S. Edwards)

Session 166I (PAAR): Meta-methods for theorem proving
10:45-13:00

Chair:

Location: FH, Hörsaal 7

10:45-11:15 M. Nassar and G. Sutcliffe. Automated Theorem Proving using the TPTP Process Instruction Language

11:15-11:45 N. Arhami and G. Sutcliffe. The Efficiency of Automated Theorem Proving by Translation to Less Expressive Logics

11:45-12:15 C. Kaliszyk, J. Urban and J. Vyskocil. Machine Learner for Automated Reasoning 0.4 and 0.5

12:15-12:45 J. Urban. BliStr: The Blind Strategymaker

Session 166J (FRIDA): Contributed Talks 1
10:45-13:00

Chair:

Location: FH, Seminarraum 104

10:45-11:15 M. Függer, T. Nowak, U. Schmid and R. Najvirt. Towards binary circuit models that faithfully reflect physical (un)solvability

11:15-11:45 B. Bisping, P.-D. Brodmann, T. Jungnickel, C. Rickmann, H. Seidler, A. Stüber, A. Wilhelm-Weidner, K. Peters and U. Nestmann. Mechanical Verification of a Constructive Proof for FLP

11:45-12:15 N. Azmy. Having SPASS with Pastry and TLA+

12:15-12:45 A. Sokolova. Concurrent Data Structures: Semantics and (Quantitative) Relaxation

Session 166K (GeTFun)
10:45-13:00

Chair:

Location: FH, Hörsaal 4

10:45-11:30 J. Marcos. Broadly truth-functional logics through classical lenses

11:30-12:00 C. Englander and H. Hauesler. Natural deduction for non-deterministic finite-valued logics

12:00-12:30 I. Mikirtumov. The procedural understanding of meaning and compositionality in formal semantics

12:30-13:00 R. Santiago, B. Bedregal, J. Marcos and C. Caleiro. Semi-BCI-algebras

Session 166L (ARW-DT, VERIFY, WING): Contributed Talks
10:45-12:15

Chair:

Location: FH, Hörsaal 3

10:45-11:15 B. Beckert, T. Borner, R. Gore, M. Kirsten and T. Meumann. Reasoning About Vote Counting Schemes Using Light-weight and Heavy-weight Methods

11:15-11:45 R. Ji and R. Hähnle. Introducing a Sound Deductive Compilation Approach

11:45-12:15 B. Fallenstein and N. Soares. Verifying safety properties of Artificial General Intelligence: The ultimate safety-critical system?

Session 166M (PRUV): Vagueness to some degree
10:45-12:15

Chair:

Location: FH, Seminarraum 107

10:45-11:15 L. Behounek. In Which Sense Is Fuzzy Logic a Logic for Vagueness?

11:15-11:45 J. Lee and Y. Wang. Stable Models of Fuzzy Propositional Formulas

Program on Wednesday, July 23rd

11:45-12:15 A. Britz and I. Varzinczak. Towards a Logic of Dilation

Session 167 (ARQNL): Opening
10:50-11:00

Chair:

Location: FH, Seminarraum 138C

10:50-11:00 . Workshop Organizers. ARQNL Workshop - Opening

Session 168 (ARQNL): First-Order Modal Logics, Quantified Dynamic and Temporal Logic, Problem Libraries
11:00-13:00

Chair:

Location: FH, Seminarraum 138C

11:00-11:30 D. Doligez, J. Kriener, L. Lamport, T. Libal and S. Merz. Coalescing: Syntactic Abstraction for Reasoning in First-Order Modal Logics

11:30-12:00 P. Hou. A Logic for Verifying Metric Temporal Properties in Distributed Hybrid Systems

12:00-12:30 J. Otten and T. Raths. Problem Libraries for Non-Classical Logics

12:30-13:00 C. Benzmüller. HOL Provers for First-order Modal Logics --- Experiments

Session 169 (ASPOCP): Short Break
11:35-11:45

Chair:

Location: FH, Seminarraum 138A

Session 170A (ASPOCP): Dynamic Domains and Action Languages
11:45-13:00

Chair:

Location: FH, Seminarraum 138A

11:45-12:10 P. Cabalar and M. Diéguez. Temporal Stable Models are LTL-representable

12:10-12:35 S. Zhang, F. Yang, P. Khandelwal and P. Stone. Applying Action Language BC with Hierarchical Domain Abstraction to Mobile Robots

12:35-13:00 J. Babb and J. Lee. Action Language BC+: Preliminary Report

Session 170B (VeriSure): Discussion
11:45-12:15

Chair:

Location: FH, Hörsaal 2

Session 171A (VeriSure): Human Interfaces and Medical Devices, and discussion
12:15-13:00

Chair:

Location: FH, Hörsaal 2

12:15-12:45 P. Curzon, P. Masci, P. Oladimeji, R. Rukšėnas, H. Thimbleby and E. D'Urso. Human-Computer Interaction and the Formal Certification and Assurance of Medical Devices: The CHI+MED Project

Session 171B (ARW-DT, VERIFY, WING): Verification: Contributed Talks
12:15-13:15

Chair:

Location: FH, Hörsaal 3

12:15-12:45 M.B. Caminati, M. Kerber, C. Lange and C. Rowat. Reasoning about Auctions

12:45-13:15 D. Felsing, S. Grebing, V. Klebanov and M. Ulbrich. Automating Regression Verification

Session 172A (KR): Knowledge Representation and Reasoning 2
14:30-16:00

Chair: Vladimir Lifschitz

Location: EI, EI 7

14:30-15:00 L. Libkin. Certain Answers as Objects and Knowledge

15:00-15:30 P. Schüller. Tackling Winograd Schemas by Formalizing Relevance Theory in Knowledge Graphs

Program on Wednesday, July 23rd

15:30-16:00 L. Michael. Simultaneous Learning and Prediction

Session 172B (KR): Reports from the Field

14:30-16:00

Chair: Leora Morgenstern

Location: EI, EI 9

14:30-15:00 M. Bhatt, C. Schultz and M. Thosar. Computing Narratives of Cognitive User Experience for Building Design Analysis: KR for Industry Scale Computer-Aided Architecture Design

15:00-15:30 M. Thimm. Tweety: A Comprehensive Collection of Java Libraries for Logical Aspects of Artificial Intelligence and Knowledge Representation

15:30-16:00 A. Marrella, M. Mecella and S. Sardina. SmartPM: An Adaptive Process Management System through Situation Calculus, IndiGolog, and Classical Planning

Session 172C (RS): Invited talks: Henzinger; Kugler; Fisher

14:30-16:00

Chair:

Location: FH, Zeichensaal 3

14:30-15:00 T.A. Henzinger. Quantitative Reactive Modeling

15:00-15:30 H. Kugler. On Statecharts, Scenarios and Biological Modeling

15:30-16:00 J. Fisher. Cancer as Reactivity

Session 172D (Vampire): Invited Talk by Jasmin Blanchette, Discussions

14:30-16:00

Chair: Andrei Voronkov

Location: FH, Seminarraum 134

14:30-15:30 J.C. Blanchette. My Life with an Automatic Theorem Prover

15:30-16:00 A. Voronkov and L. Kovacs. Discussions

Session 172E (ARQNL): Common Logic, Higher-Order Nominal Modal Logic, First-Order Intuitionistic Logic

14:30-16:00

Chair:

Location: FH, Seminarraum 138C

14:30-15:00 T. Mossakowski, M. Codescu, O. Kutz, C. Lange and M. Grüninger. Proof Support for Common Logic

15:00-15:30 M. Wisniewski and A. Steen. Embedding of Quantified Higher-Order Nominal Modal Logic into Classical Higher-Order Logic

15:30-16:00 J. Alama. Dialogues for proof search

Session 172F (VeriSure): Assurance for Secure Systems

14:30-15:30

Chair:

Location: FH, Hörsaal 2

14:30-15:00 F. Verbeek, J. Schmaltz, S. Tverdyshev, H. Blasum and O. Havle. Implicit Assumptions in a Model for Separation Kernels

15:00-15:30 C. Heitmeyer. Assurance and Verification of Security Properties

Session 172G (HSB): Tutorial (Antoniotti), Contributed Talk (Dreossi)

14:30-16:00

Chair:

Location: FH, Seminarraum 101A

14:30-15:30 M. Antoniotti. Tutorial: The Cellular Potts Model

15:30-16:00 T. Dreossi, T. Dang and C. Piazza. Parameter Synthesis using Parallelotopic Enclosure and Applications to Epidemic Models

Session 172H (PAAR): Superposition II

14:30-16:00

Chair:

Location: FH, Hörsaal 7

14:30-15:00 J. Bax. A Model Guided Instantiation Heuristic for the Superposition Calculus with Theories

15:00-15:30 S. Cruanes. Logtk : A Logic ToolKit for Automated Reasoning and its Implementation

Program on Wednesday, July 23rd

15:30-16:00 D. Wand. Polymorphic+Typeclass Superposition

Session 172I (FRIDA): Invited talk: Ahmed Bouajjani

14:30-15:45

Chair:

Location: FH, Seminarraum 104

14:30-15:45 A. Bouajjani. On Checking Correctness of Concurrent Data Structures

Session 172J (ARW-DT, WING): Contributed Talks

14:30-16:00

Chair:

Location: FH, Hörsaal 3

14:30-15:00 N. Wasser and R. Bubel. A Theorem Prover Backed Approach to Array Abstraction

15:00-15:30 V. Maisonneuve, O. Hermant and F. Irigoin. ALICe: A Framework to Improve Affine Loop Invariant Computation

15:30-16:00 J.P. Galeotti, C.A. Furia, E. May, G. Fraser and A. Zeller. Loop Invariants by Mutation, Dynamic Validation, and Static Checking

Session 172K (GeTFun)

14:30-16:00

Chair:

Location: FH, Hörsaal 4

14:30-15:00 A. Rademaker and H. Hauesler. An intuitionistic ALC description default logic

15:00-15:30 L. Viganò, M. Volpe and M. Zorzi. An infinitary deduction system for CTL*

15:30-16:00 P. Falcão. Modal functions as moody truth-functions

Session 172L (PRUV): Reasoning for Vagueness perhaps

14:30-16:00

Chair:

Location: FH, Seminarraum 107

14:30-15:00 A. Ecke. Similarity-based Relaxed Instance Queries in EL++

15:00-15:30 D. Mitchell. Resolution and Clause Learning for Multi-Valued CNF Formulas

15:30-16:00 S. Borgwardt, M. Cerami and R. Peñaloza. Many-valued Horn Logic is Hard

Session 173A (ASPOCP): Applications

14:45-16:00

Chair:

Location: FH, Seminarraum 138A

14:45-15:10 S. Costantini and A. Formisano. Query Answering in Resource-Based Answer Set Semantics

15:10-15:35 M. Gebser, T. Janhunen and J. Rintanen. Declarative Encodings of Acyclicity Properties

15:35-16:00 M. Abseher, B. Bliem, G. Charwat, F. Dusberger and S. Woltran. Computing Secure Sets in Graphs using Answer Set Programming

Session 173B (SYNT): Invited Talk 2

14:45-16:00

Chair:

Location: FH, Seminarraum 101B

14:45-16:00 A. Tiwari. Synthesis using EF-SMT Solvers (Invited Talk)

Session 174 (VeriSure): Discussion

15:30-16:00

Chair:

Location: FH, Hörsaal 2

Session 175A (KR): Planning, Strategies and Diagnosis 2

16:30-18:00

Chair: Esra Erdem

Location: EI, EI 7

16:30-17:00 J. Baier, B. Mombourquette and S. McIlraith. Diagnostic Problem Solving via Planning with Ontic and Epistemic Goals

17:00-17:30 F. Lin. A Formalization of Programs in First-Order Logic with a Discrete Linear Order

Program on Wednesday, July 23rd

17:30-18:00 F. Belardinelli. Satisfiability of Alternating-time Temporal Epistemic Logic through Tableaux

Session 175B (KR): Uncertainty

16:30-18:00

Chair: Joe Halpern

Location: EI, EI 9

16:30-17:00 N. Potyka. Linear Programs for Measuring Inconsistency in Probabilistic Logics

17:00-17:30 S. Benferhat and K. Tabia. Reasoning with Uncertain Inputs in Possibilistic Networks

17:30-18:00 S.M. Kazemi, D. Buchman, K. Kersting, S. Natarajan and D. Poole. Relational Logistic Regression

Session 175C (ASPOCP): Systems, Tools, and Frameworks

16:30-18:10

Chair:

Location: FH, Seminarraum 138A

16:30-16:55 G. Brewka, J. Delgrande, J. Romero and T. Schaub. "Are Preferences Giving You a Headache?" - "Take aspirin!"

16:55-17:20 M. Alviano, C. Dodaro, J. Marques-Silva and F. Ricca. On the Implementation of Weak Constraints in WASP

17:20-17:45 K. Shchekotykhin. Interactive Query-based Debugging of ASP Programs

17:45-18:10 I. Tachmazidis, G. Antoniou and W. Faber. Computing Answer Sets for Monadic Logic Programs via MapReduce

Session 175D (RS): Invited talks: Clarke; Dershowitz; Vardi

16:30-18:15

Chair:

Location: FH, Zeichensaal 3

16:30-17:15 E.M. Clarke. Model Checking Hybrid Systems

17:15-17:45 N. Dershowitz. Towards a General Model of Evolving Interaction

17:45-18:15 M. Vardi. Compositional Temporal Synthesis

Session 175E (SYNT): Special Session on Competitions: SyGuS & SyntComp

16:30-18:00

Chair:

Location: FH, Seminarraum 101B

16:30-17:15 R. Alur. The 1st Syntax-Guided Synthesis Competition (SyGuS)

17:15-18:00 S. Jacobs. The 1st Synthesis Competition for Reactive Systems (SyntComp)

Session 175F (Vampire): Vampire Regular Talks

16:30-18:00

Chair: Laura Kovacs

Location: FH, Seminarraum 134

16:30-17:00 A. Biere, I. Dragan, L. Kovacs and A. Voronkov. SAT solving experiments in Vampire

17:00-17:30 E. Kotelnikov, L. Kovacs and A. Voronkov. First Class Boolean Type in First-Order Theorem Proving and TPTP

17:30-18:00 A. Gupta, L. Kovacs, B. Kragl and A. Voronkov. Reasoning in First-Order Theories with Extensionality

Session 175G (ARQNL): Logic with Partial Functions, First-Order Sequent Logics, Discussion

16:30-18:00

Chair:

Location: FH, Seminarraum 138C

16:30-17:00 H. De Nivelle. Theorem Proving for Logic with Partial Functions Using Kleene Logic and Geometric Logic

17:00-17:30 A. Lyaletski. Computer-oriented inference search in first-order sequent logics

17:30-18:00 . Workshop Organizers. Open Discussion

Session 175H (VeriSure): Assurance and Probability

16:30-17:30

Chair:

Location: FH, Hörsaal 2

16:30-17:00 S. Nielebock, T. Gonschorek and F. Ortmeier. A Graphical Notation for Probabilistic Specifications

Program on Wednesday, July 23rd

17:00-17:30 S. Frenkel. Assurance of some system reliability characteristics in formal design verification

Session 175I (ARW-DT, WING): Evaluation, Sets, Tableaux
16:30-18:00

Chair:

Location: FH, Hörsaal 3

16:30-17:00 S. Grebing, B. Beckert and F. Böhl. Towards Evaluating the Usability of Interactive Theorem Provers

17:00-17:30 M. Bender. Combined Reasoning with Sets and Aggregation Functions

17:30-18:00 J. Stell, R.A. Schmidt and D. Rydeheard. Tableau Development for a Bi-Intuitionistic Tense Logic

Session 175J (PAAR): Proving and Disproving
16:30-18:00

Chair:

Location: FH, Hörsaal 7

16:30-17:00 T. Gauthier, C. Kaliszyk, C. Keller and M. Norrish. Beagle as a HOL4 external ATP method

17:00-17:30 S. Saghaei and D. Dougherty. Razor: Provenance and Exploration in Model-Finding

17:30-18:00 M.P. Bonacina and D. Plaisted. SGGs Theorem Proving: an Exposition

Session 175K (FRIDA): Contributed Talks 2
16:30-18:30

Chair:

Location: FH, Seminarraum 104

16:30-17:00 C. Dragoi, T. Henzinger, H. Veith, J. Widder and D. Zufferey. A Logic-based Framework for Verifying Consensus Algorithms

17:00-17:30 F. Alberti, S. Ghilardi and N. Sharygina. Monotonic Abstraction Techniques: from Parametric to Software Model Checking

17:30-18:00 G. Delzanno and M. Tatarek. Model Checking Distributed Consensus Algorithms

18:00-18:30 L. Spalazzi and F. Spegni. Model-Checking of Parameterized Timed-Systems

Session 175L (GeTFun)
16:30-18:00

Chair:

Location: FH, Hörsaal 4

16:30-17:00 V. Nigam, C. Olarte and E. Pimentel. On subexponentials, focusing and modalities in concurrent systems

17:00-17:30 L. Viganò, M. Volpe and M. Zorzi. Quantum state transformations and distributed temporal logic

17:30-18:00 O. Arieli, K. Stefanidis and A. Zamansky. Combining non-determinism and context awareness in consistency restoration systems

Session 175M (PRUV): Favorite reasoning procedures for preferences
16:30-18:00

Chair:

Location: FH, Seminarraum 107

16:30-17:00 E. Armengol. Learning Preferences for Collaboration

17:00-17:30 T. Di Noia, T. Lukasiewicz, M.V. Martinez, G. Simari and O. Tifrea-Marcuska. Computing k-Rank Answers with Ontological CP-Nets

17:30-18:00 E. Acar and C. Meilicke. Multi-Attribute Decision Making using Weighted Description Logics

Session 176 (VeriSure): Discussion and Closing
17:30-18:00

Chair:

Location: FH, Hörsaal 2

Session 177 (ARW-DT): Business Meeting
18:00-19:00

Chair:

Location: FH, Hörsaal 3

Program on Wednesday, July 23rd

Session 178 (ASPOCP): Closing
18:10-18:20

Chair:

Location: FH, Seminarraum 138A

Session 179 (KR): KR Great Moments Invited Talk : Sheila McIlraith (Situation Calculus: The last 15 years)
18:30-19:45

Chair: Giuseppe De Giacomo

Location: EI, EI 7

18:30-19:45 S. McIlraith. Situation Calculus: The Last 15 Years

Session 180 (KR): KR Awards
19:45-20:00

Chair:

Location: EI, EI 7

Program on Thursday, July 24th

Program on Thursday, July 24th

Conferences:

KR: 14th International Conference on Principles of Knowledge Representation and Reasoning
ARW-DT: Joint Automated Reasoning Workshop and Deduktionstreffen
FRIDA: Workshop on Formal Reasoning in Distributed Algorithms
HSB: 3rd International Workshop on Hybrid Systems and Biology
PRUV: First Workshop on Logics for Reasoning about Preferences, Uncertainty, and Vagueness
SYNT: 3rd Workshop on Synthesis

Program on Thursday, July 24th

KR	KR	ARW-DT	FRIDA	HSB	PRUV
09:00-10:15 KR Session 182A KR Invited Talk: Georg Gottlob (Datalog+/- : Questions and Answers)		08:45-10:15 ARW-DT Session 181A PRIVACY, SAT	09:00-10:15 FRIDA Session 182C Invited talk: Alexander Shvartsman	08:45-10:15 HSB Session 181B Invited Talk (Harel), Contributed Talk (Brazma)	09:00-10:15 PRUV Session 182D Invited Talk: Gabriele Kern-Isberner
10:15-10:45 Coffee Break					
10:45-12:45 KR Session 183A Logic Programming and Answer Set Programming	10:45-12:45 KR Session 183B Causality and Rationality	10:45-13:15 ARW-DT Session 183D Planning, Deontic Logic, Herbrand	10:45-13:00 FRIDA Session 183F Contributed Talks 3	10:45-13:00 HSB Session 183E Tutorial (Grosu), Contributed Talks (Sterratt, Kyriakopoulos, Rocca)	10:45-12:15 PRUV Session 183G Ontology-based reasoning, probably
12:50-13:50 KR Session 184 KR Open Discussion and Closing					
13:00-14:30 Lunch Break					
		14:30-16:00 ARW-DT Session 185A Non-Classical Ontologies I	14:30-16:00 FRIDA Session 185C Contributed Talks 4	14:30-16:00 HSB Session 185B Contributed Talks (Angione, Sorokin), Concluding Remarks (Maler)	14:30-16:00 PRUV Session 185D Demo session & closing
16:00-16:30 Coffee Break					
		16:30-18:00 ARW-DT Session 187A Non-Classical Ontologies II: Higher- Order	16:30-18:00 FRIDA Session 187B Contributed Talks 5		

Program on Thursday, July 24th

SYNT
09:00-10:15 SYNT Session 182B Invited Talk 3
10:15-10:45 Coffee Break
10:45-13:00 SYNT Session 183C Contributed Talks 2 & Invited Talk 4
13:00-14:30 Lunch Break
14:45-16:00 SYNT Session 186 Contributed Talks 3, Wrap-up & Discussions
16:00-16:30 Coffee Break

Program on Thursday, July 24th

Session 181A (ARW-DT): PRIVACY, SAT
08:45-10:15

Chair:

Location: FH, Hörsaal 3

08:45-09:45 L. Viganò. Defining privacy is supposed to be easy

09:45-10:15 N. Manthey. Extended Resolution in Modern SAT Solving

Session 181B (HSB): Invited Talk (Harel), Contributed Talk (Brazma)
08:45-10:15

Chair:

Location: FH, Seminarraum 101A

08:45-09:45 D. Harel. The Whole Organism Challenge

09:45-10:15 A. Brazma, K. Cerans, D. Ruklisa, T. Schlitt and J. Viksna. Modeling and analysis of qualitative behavior of gene regulatory networks

Session 182A (KR): KR Invited Talk: Georg Gottlob (Datalog+/- : Questions and Answers)
09:00-10:15

Chair:

Location: EI, EI 7

09:00-10:15 G. Gottlob, T. Lukasiewicz and A. Pieris. Datalog+/-: Questions and Answers

Session 182B (SYNT): Invited Talk 3
09:00-10:15

Chair:

Location: FH, Seminarraum 101B

09:00-10:15 L. Ryzhyk. Automatic Device Driver Synthesis Project: a Work-in-Progress Report (Invited Talk)

Session 182C (FRIDA): Invited talk: Alexander Shvartsman
09:00-10:15

Chair:

Location: FH, Seminarraum 104

09:00-10:15 A. Shvartsman. Specifying, Reasoning About, Optimizing, and Implementing Atomic Data Services for Distributed Systems

Session 182D (PRUV): Invited Talk: Gabriele Kern-Isberner
09:00-10:15

Chair:

Location: FH, Seminarraum 107

09:00-10:15 G. Kern-Isberner. TBA

Session 183A (KR): Logic Programming and Answer Set Programming
10:45-12:45

Chair: Stefania Constantini

Location: EI, EI 7

10:45-11:15 V. Asuncion, Y. Zhang and H. Zhang. Logic Programs with Ordered Disjunction: First-order Semantics and Expressiveness

11:15-11:45 A. Charalambidis and P. Rondogiannis. Constructive Negation in Extensional Higher-Order Logic Programming

11:45-12:15 M. Denecker and J. Vennekens. The Well-Founded Semantics Is the Principle of Inductive Definition, revisited

12:15-12:45 A. Harrison, V. Lifschitz and F. Yang. The Semantics of Gringo and Infinitary Propositional Formulas

Session 183B (KR): Causality and Rationality
10:45-12:45

Chair: Eugenia Ternovska

Location: EI, EI 9

10:45-11:15 A. Bochman. Dynamic Causal Calculus

11:15-11:45 J. Halpern. Appropriate Causal Models and Stability of Causation

11:45-12:15 A. Bjorndahl, J. Halpern and R. Pass. Axiomatizing Rationality

Program on Thursday, July 24th

12:15-12:45 E. Ianovski and L. Ong. □GUARANTEENASH for Boolean Games Is NEXP-Hard

Session 183C (SYNT): Contributed Talks 2 & Invited Talk 4
10:45-13:00

Chair:

Location: FH, Seminarraum 101B

10:45-11:15 A. Khalimov, S. Jacobs and R. Bloem. Parameterized Synthesis Case Study: AMBA AHB

11:15-11:45 S. Jha and S.A. Seshia. Are There Good Mistakes? A Theoretical Analysis of CEGIS

11:45-13:00 B. Finkbeiner. Petri Games: Synthesis of Distributed Systems with Causal Memory (Invited Talk)

Session 183D (ARW-DT): Planning, Deontic Logic, Herbrand
10:45-13:15

Chair:

Location: FH, Hörsaal 3

10:45-11:15 M. Judge. Using CSP Meta Variables in AI Planning

11:15-11:45 C. Schon, U. Furbach and F. Stolzenburg. Automated Reasoning in Deontic Logic

11:45-12:15 M. Judge. (AI) Planning to Reconfigure your Robot?

12:15-12:45 C. Wernhard. Second-Order Characterizations of Definientia in Formula Classes

12:45-13:15 A. Lyaletski. On Herbrand theorems for classical and non-classical logics

Session 183E (HSB): Tutorial (Grosu), Contributed Talks (Sterratt, Kyriakopoulos, Rocca)
10:45-13:00

Chair:

Location: FH, Seminarraum 101A

10:45-11:30 R. Grosu. Tutorial: Challenges and opportunities in controlling the human heart

11:30-12:00 D.C. Sterratt, O. Sorokina and J.D. Armstrong. Integration of rule-based models and compartmental models of neurons

12:00-12:30 C. Kyriakopoulos and V. Wolf. Optimal Observation Time Points in Stochastic Chemical Kinetics

12:30-13:00 A. Rocca, T. Dang and E. Fanchon. Exploiting the eigenstructures of linear systems to speed up reachability computation

Session 183F (FRIDA): Contributed Talks 3
10:45-13:00

Chair:

Location: FH, Seminarraum 104

10:45-11:15 T. Gawron-Deutsch. Verification and Validation Challenges in Smart Grids from the Industrial Perspective

11:15-11:45 M. Dodds, A. Haas and C. Kirsch. A Fast, Correct Time-Stamped Stack

11:45-12:15 F.P. Hargreaves, D. Merkle and P. Schneider-Kamp. Correctness and Performance Analysis of Distributed High Performance Programs in Scala

12:15-12:45 V. Altukhov, E. Chemeritskiy, V. Podymov and V. Zakharov. Models and techniques for verification of Software Defined Networks

Session 183G (PRUV): Ontology-based reasoning, probably
10:45-12:15

Chair:

Location: FH, Seminarraum 107

10:45-11:15 T. Lukasiewicz, M.V. Martinez, C. Molinaro, L. Predoiu and G. Simari. Answering Ontological Ranking Queries Based on Subjective Reports

11:15-11:45 A. Djedai, H. Seridi and T. Khadir. Reasoning Under Belief Uncertainty in DL Lite N bool Using Finite Models

11:45-12:15 C. Beierle, M. Höhnerbach and M. Marto. Generation of Parametrically Uniform Knowledge Bases in a Relational Probabilistic Logic with Maximum Entropy Semantics

Session 184 (KR): KR Open Discussion and Closing
12:50-13:50

Chair:

Location: EI, EI 7

Program on Thursday, July 24th

Session 185A (ARW-DT): Non-Classical Ontologies I
14:30-16:00

Chair:

Location: FH, Hörsaal 3

14:30-15:00 F. Papacchini and R.A. Schmidt. Models Minimal Modulo Subset-Simulation for Expressive Propositional Modal Logics

15:00-15:30 C. Nalon and G. Bezerra Silva. A Resolution-Based Prover for Normal Modal Logics

15:30-16:00 P. Koopmann and R.A. Schmidt. Computing Uniform Interpolants of ALCH-Ontologies with Background Knowledge

Session 185B (HSB): Contributed Talks (Angione, Sorokin), Concluding Remarks (Maler)
14:30-16:00

Chair:

Location: FH, Seminarraum 101A

14:30-14:55 C. Angione, E. Bartocci, L. Bortolussi, P. Lio', A. Occhipinti and G. Sanguinetti. Bayesian Design for Whole Cell Synthetic Biology Models

14:55-15:20 A. Sorokin, O. Sorokina and J.D. Armstrong. RKappa: Statistical sampling suite for Kappa models.

15:20-16:00 O. Maler. Concluding remarks: Dynamic Systems Biology

Session 185C (FRIDA): Contributed Talks 4
14:30-16:00

Chair:

Location: FH, Seminarraum 104

14:30-15:00 C. Dragoi, J. Widder and D. Zufferey. Round model for distributed algorithms: from verification to implementation.

15:00-15:30 L. Millet, M. Gradinariu Potop-Butucaru, N. Sznajder and S. Tixeuil. On the Synthesis of Mobile Robots Algorithms: the Case of Ring Gathering

15:30-16:00 S. Rubin. Parameterised Verification of Robot Protocols: An Automata Theoretic Approach

Session 185D (PRUV): Demo session & closing
14:30-16:00

Chair:

Location: FH, Seminarraum 107

Session 186 (SYNT): Contributed Talks 3, Wrap-up & Discussions
14:45-16:00

Chair:

Location: FH, Seminarraum 101B

14:45-15:15 R. Brenguier, G. Perez, O. Sankur and J.-F. Raskin. AbsSynthe: abstract synthesis from succinct safety specifications

15:15-15:45 R. Ehlers and V. Raman. Low-effort Specification Debugging and Analysis

Session 187A (ARW-DT): Non-Classical Ontologies II: Higher-Order
16:30-18:00

Chair:

Location: FH, Hörsaal 3

16:30-17:00 M. Wisniewski, A. Steen and C. Benz Müller. The Leo-III Project

17:00-17:30 A. Bolotov, V. Shangin, O. Grigoriev and M. Urbanski. Socratic Proofs for Propositional Linear-Time Logic

17:30-18:00 M. Horbach and V. Sofronie-Stokkermans. Modular Verification of Interconnected Families of Uniform Linear Hybrid Automata

Session 187B (FRIDA): Contributed Talks 5
16:30-18:00

Chair:

Location: FH, Seminarraum 104

16:30-17:00 J. Rybicki. Synthesizing self-stabilizing fault-tolerant algorithms (extended abstract)

17:00-17:30 N. Braud-Santoni and S. Jacobs. Synthesis for Resilient Distributed Systems

17:30-18:00 S. Jacobs. Parameterized Synthesis

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