

Deduction at Scale

Monday, March 7

09:00	09:30	The Organizers/Jochen Essl Welcome/Logistics
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Chair: Andre Platzer

09:35	10:05	Ina Schaefer Compositional Verification of Software Product Families
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10:10	10:40	Stephan Merz The TLA+ Proof System
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10:45	11:00	Coffee
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Chair: Florian Lonsing

11:00	11:30	Tommi Junttila SAT Solving in Grids: Randomization, Partitioning, and Clause Learning
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11:35	12:05	Armin Biere Unhiding Redundancy in SAT
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12:10	12:40	Leonardo de Moura Universal Z3, a model finder for quantified SMT formulas
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12:45	14:00	Lunch
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Chair: Ina Schaefer

14:00	14:30	Nikolaj Bjorner Scaling SMT Solving for Applications
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14:35	15:05	Sanjit A. Seshia Voting Machines and Automotive Software: Explorations with SMT at Scale
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15:10	15:40	Jasmin Christian Blanchette Sledgehammer Hell: The Day after Judgment
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15:45	16:00	Coffee
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Chair: Konstantin Korovin

16:00	16:30	Christoph Weidenbach The Model-Based Car Lifecycle - A Challenge to Automated Reasoning
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16:35	17:05	Franz Baader Small is Again Beautiful in Description Logics
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17:10	17:40	Ian Horrocks Searching for the Holy Grail
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	18:30	Dinner
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Tuesday, March 8

Chair: Krystof Hoder

09:00	09:30	Martin Gebser Answer Set Programming, the Solving Paradigm for Knowledge Representation and Reasoning
09:35	10:05	Ilkka Niemela Integrating Answer Set Programming and Satisfiability Modulo Theories
10:10	10:40	Patrick Wischnewski YAGO++ Query Answering

10:45	11:00	Coffee
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Chair: Martin Gebser

11:00	11:30	Ulrich Furbach Deduction Based Question Answering
11:35	12:05	Krystof Hoder Sine Qua Non for Large Theory Reasoning
12:10	12:40	Stephan Schulz First-Order Deduction for Large Knowledge Bases

12:45	14:00	Lunch
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Chair: Sascha Boehme

14:00	14:30	Josef Urban Large Formal Libraries: Birthplace of Strong AI?
14:35	15:05	Piotr Rudnicki On the Integrity of a Repository of Formal Mathematics
15:10	15:40	Photo

15:45	16:00	Coffee
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Chair: Rusica Piskac

16:00	16:30	Paul B. Jackson Improved techniques for proving non-linear real arithmetic problems
16:35	17:05	Philippe Suter Satisfiability Modulo Computable Functions
17:10	17:40	Andre Platzer Quantified Differential Dynamic Logic for Distributed Hybrid Systems

	18:30	Dinner
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Wednesday, March 9

Chair: Dejan Jovanovic

09:00	09:30	Vladimir Klebanov You are in a twisty maze of proofs, all alike
09:35	10:05	Natasha Sharygina An efficient and flexible approach to resolution proof reduction
10:10	10:40	Florian Lonsing Preprocessing QBF: Failed Literals and Quantified Blocked Clause Elimination
10:45	11:00	Coffee

Chair: Patrick Wischniewski

11:00	11:30	Laura Kovacs Experiments with Invariant Generation Using a Saturation Theorem Prover
11:35	12:00	Adnan Darwiche Logic and Probability: The Computational Connection
12:00	13:00	Lunch
13:00	17:00	Trip to Tegernsee
17:30	18:30	Guided Tour of Ringberg Castle
	18:30	Dinner

Thursday, March 10

Chair: Jasmin Christian Blanchette

09:00	09:30	Konstantin Korovin Labelled Unit Superposition for Instantiation-based Reasoning
09:35	10:05	Andrei Voronkov Propositional Variables and Splitting in a First-Order Theorem Prover
10:10	10:40	Adnan Darwiche Logic and Probability: The Computational Connection
10:45	11:00	Coffee

Chair: Laura Kovacs

11:00	11:30	Albert Oliveras Cumulative Scheduling and Pseudo-Boolean Constraints
11:35	12:05	Bruno Dutertre Challenging Problems for Yices
12:10	12:40	Dejan Jovanovic Sharing is Caring: Combination of Theories
12:45	14:00	Lunch

Chair: Philippe Suter

14:00	14:30	Alberto Griggio Efficient Interpolant Generation in Satisfiability Modulo Linear Integer Arithmetic
14:35	15:05	Deepak Kapur A Quantifier-Elimination Heuristic for Octagonal Constraints
15:10	15:40	Philipp Ruemmer Beyond Quantifier-Free Interpolation in Extensions of Presburger Arithmetic
15:45	16:00	Coffee

Chair: Harald Zankl

16:00	16:30	Reiner Hähnle Implementing a partial evaluator via a software verification tool
16:35	17:05	Sascha Böhme Low-level code and high-level theorems
17:10	17:40	Tobias Nipkow Verified efficient enumeration of graphs modulo isomorphism
	18:30	Dinner

Friday, March 11

Chair: Philipp Ruemmer

09:00	09:30	Harald Zankl Labelings for Decreasing Diagrams
09:35	10:05	Jürgen Giesl Modular Termination Analysis for Java Bytecode by Term Rewriting
10:10	10:40	Ruzica Piskac Decision Procedures for Automating Termination Proofs

10:45	11:00	Coffee
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11:00	11:30	Dejan Jovanovic Cutting to the Chase: Solving Linear Integer Arithmetic
11:35	12:05	Geoff Sutcliffe SPASS-XDB - Automated Reasoning with World Knowledge

	12:05	Lunch
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