

Dagstuhl Seminar “20061: SAT and Interactions”

Monday, 3 February 2020

08:55	welcome
09:00 - 10:00	Massimo Lauria: Proof Complexity: A Survey
10:00-10:30	coffee break
10:30 - 11:30	Lutz Straßburger: Proof Theory and Deep Inference
11:30 - 12:00	Introduction round
12:15	lunch
15:30	cake
16:00 - 17:00	Vijay Ganesh: Machine Learning and Logic Solvers: The Next Frontier
17:10 - 17:40	Marc Vinyals: Hard Examples for Common Variable Decision Heuristics
18:00	dinner

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Tuesday, 4 February 2020

9:00 - 10:00	Mikoláš Janota: QBF Solving
10:00 - 10:30	coffee break
10:30 - 11:00	Friedrich Slivovsky: Computing Unique Strategy Functions by Interpolation
11:00 - 11:30	Tomás Peitl: Dependency Learning for QBF
11:30 - 12:00	Joshua Blinkhorn: Hardness Characterisations and Size-Width Lower Bounds for QBF Resolution
12:15	lunch
15:30	cake
16:00 - 17:00	Joao Marques-Silva: MaxSAT: A Survey
17:10 - 17:50	Edward Hirsch: Semi-Algebraic Proofs, IPS Lower Bounds and the τ -Conjecture: Can a Natural Number be Negative?
18:00	dinner

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Wednesday, 5 February 2020

9:00 - 10:00	Cláudia Nalon: Modal Logics: An Overview
10:00 - 10:30	coffee break
10:30 - 11:00	Clare Dixon: Clausal Resolution for Temporal Logics
11:00 - 11:30	Ullrich Hustadt: Benchmarking modal logic theorem provers
11:30 - 12:00	Dirk Pattinson: Proof and Refutation: An Adventure in Formalisation
12:15	lunch
13:15	Hike/Excursion/Free Afternoon
18:00	dinner

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Thursday, 6 February 2020

9:00 - 09:40	Renate Schmidt: Forgetting-Based Ontology Extraction
9:40 - 10:10	Cláudia Nalon: Modal Logics: An Overview (Continued)
10:10 - 10:40	coffee break
10:40 - 11:10	Florian Wörz: Reversible Pebbling
11:10 - 11:40	Jan Johannsen: Simplified and Improved Separations between Regular and General Resolution by Lifting
11:40 - 12:10	Stefan Mengel: Revisiting Graph Width Measures for CNF-Encodings
12:15	lunch
15:30	cake
16:00 - 16:30	Akhil Dixit: Consistent Query Answering via SAT Solving
16:30 - 17:00	Anupam Das: From QBFs to MALL and back via focussing
17:00 - 18:00	Discussion: Future Directions of Research
18:00	dinner

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Friday, 7 February 2020

9:30 - 10:00	Leroy Chew: The Equivalences of Refutational QRAT
10:00 - 10:30	Judith Clymo: Universal Expansion and Strategy Extraction in QBF Solving
10:30 - 11:00	coffee break
11:00 - 11:30	David Sherratt: A spinal atomic lambda-calculus
11:30 - 12:00	Florent Capelli: Tractable QBF via Knowledge Compilation
12:15	lunch; end of seminar