

Schedule

Monday April 20

- 09:00–10:20: *A tutorial introduction to proof complexity* (Paul Beame)
10:20–10:40: *Coffee break*
10:40–12:00: *Tutorial on conflict-driven clause learning (CDCL) SAT solvers* (Joao Marques-Silva)
12:15–13:30: *Lunch*
14:30–15:20: *An Introduction to Semialgebraic Proofs: Basic Definitions and Results* (Albert Atserias)
15:20–15:50: *Presentation of participants*
15:50–16:20: *Coffee break*
16:20–17:10: *Handling Pseudo-Boolean constraints in a CDCL solver: a practical survey* (Daniel Le Berre)
17:10–18:00: *Gröbner bases* (Manuel Kauers)
18:00–19:15: *Dinner*
19:30–20:00: *Art exhibit opening*
20:00–21:30: *Open problem session*

Tuesday April 21

- 09:00–10:20: *Tutorial on proof systems connected to SAT solving* (Sam Buss)
10:20–10:40: *Coffee break*
10:40–12:00: *Tutorial on preprocessing and inprocessing* (Matti Järvisalo)
12:15–13:30: *Lunch*
15:00–15:30: *Towards a Deeper Empirical Understanding of CDCL SAT Solvers* (Vijay Ganesh)
15:30–16:00: *MaxSAT Solving with SAT Oracles* (Joao Marques-Silva)
16:00–16:30: *Coffee break*
16:30–17:20: *SAT-Enabled Verification of State Transition Systems* (Karem Sakallah)
17:20–17:50: *Machine learning for SAT* (Holger Hoos)
18:00–19:15: *Dinner*

Wednesday April 22

- 09:00–09:50: *How SAT Solvers Could (And Do) Prove Lower Bounds* (Ryan Williams)
09:50–10:40: *(S)ETH and A Survey of Consequences* (Ryan Williams)
10:40–11:10: *Coffee break*
11:10–12:00: *A Survey on Parameterized Complexity and SAT* (Stefan Szeider)
12:15–13:30: *Lunch*

18:00–19:15: *Dinner*

19:30–21:00: *Panel discussion*

Thursday April 23

09:00–10:20: *From SAT to SMT a tutorial* (Nikolaj Björner)

10:20–10:40: *Coffee break*

10:40–11:30: *Survey on QBF solving* (Nina Narodytska)

11:30–12:00: *QBF proof complexity* (Olaf Beyersdorff)

12:15–13:30: *Lunch*

15:00–15:30: *Parallel SAT Solving or To Share or Not To Share* (Armin Biere)

15:30–16:00: *Crowdsourcing Insights into Problem Structure for Scientific Discovery* (Bart Selman)

16:00–16:30: *Coffee break*

16:30–17:00: *An Ultimate Trade-Off in Propositional Proof Complexity* (Alexander Razborov)

17:00–17:30: *Resolution Proofs of Bounded Width* (Christoph Berkholz)

17:30–18:00: *Narrow Proofs May Be Maximally Long* (Massimo Lauria)

18:00–19:15: *Dinner*

Friday April 24

09:00–09:50: *A Survey of Random Satisfiability* (Dimitris Achlioptas)

09:50–10:20: *Space and Random CNFs* (Ilario Bonacina)

10:20–10:40: *Coffee Break*

10:40–11:10: *Linear Temporal Logic Satisfiability Checking* (Kristin Yvonne Rozier)

11:10–11:40: *Improving and Evaluating a Hybrid Approach to Max-SAT Solving* (Jessica Davies)

11:40–12:10: *Bit-Vectors: Complexity and Decision Procedures* (Andreas Fröhlich)

12:15–13:30: *Lunch*