

## **Schedule Dagstuhl Seminar 12471 "SAT Interactions"**

Monday, Nov 19

9.00h Opening/Introduction

10.30h Coffee break

11.00h Olaf Beyersdorff, Proof complexity

12.15h Lunch and Break

15.00h Arne Meier, Complexity classifications for different satisfiability problems

16.00h Break

16.30h Victor Marek, Erdős' dream; SAT and combinatorics

18.00h Dinner

## Schedule Dagstuhl Seminar 12471 "SAT Interactions"

Tuesday, Nov 20

9.00h Uwe Bubeck, Quantified Boolean formulas: complexity and expressiveness

10.00h Coffee break

10.30h Oliver Kullmann, The combinatorics of minimal unsatisfiability

11.30h Xishun Zhao, Finiteness conjecture on hitting minimal unsatisfiable formulas

12.15h Lunch and Break

15.00h Martina Seidl, QBF solvers

16.00h Break

16.30h Juha Kontinen, Dependence logic and complexity

17.00h Julian-Steffen Müller, A fragment of dependence logic characterizing PTIME

17.30h Uwe Schöning, Probability distributions for local search and make versus break

18.00h Dinner

## **Schedule Dagstuhl Seminar 12471 "SAT Interactions"**

Wednesday, Nov 21

9.00h Donald Knuth, Satisfiability and The Art of Computer Programming

10.00h Coffee break

10.30h Uwe Egly, Proof complexity for QBF

11.00h Jan Johannsen, Separating clause learning proof systems from (regular) resolution

11.30h Alexander Kulikov, New lower and upper bounds for Boolean circuit complexity

12.15h Lunch and Break

13.30h Hike

18.00h Dinner

19.30h Art exhibition opening

## Schedule Dagstuhl Seminar 12471 "SAT Interactions"

Thursday, Nov 22

9.00h Jakob Nordström, Relating proof complexity measures and practical hardness of SAT

9.45h Coffee break

10.15h Hans Kleine Büning, On some configuration problems based on representations in propositional logic

10.45h Massimo Lauria, Open problems in proof complexity

11.15h Johannes Ebbing, Model checking for modal intuitionistic dependence logic

12.15h Lunch and Break

15.00h Stefan Szeider, Fixed-parameter tractability and SAT

16.00h Break

16.30h Arnaud Durand, A criterion for tractability of counting solutions to uniform CSP

17.00h Mohan Paturi, Algorithmic expressivity and hardness of satisfiability

18.00h Dinner

20.00h Open Problems Session

## Schedule Dagstuhl Seminar 12471 "SAT Interactions"

Friday, Nov 23

9.00h Heidi Gebauer, Applications of  $(k,d)$ -trees

9.30h Dominik Scheder, Exponential lower bounds for the PPSZ  $k$ -SAT algorithm

10.00h Coffee break

10.30h John Franco, Adding unsafe constraints to improve satisfiability performance

11.00h Sean Weaver, Satisfiability enhancements enabled by state machines

11.30h Closing

12.15h Lunch