

SCHEDULE

Monday September 13, 2021

10:15 Opening, Introduction, Organization

10:45 Tutorial: Maria Paola Bonacina: Semantically-guided goal-sensitive reasoning: theorem proving and decision procedures

11:45 Discussion

12:15 Lunch

14:00 Carsten Fuhs: AProVE as a platform for integrated deduction

14:45 Discussion

15:30 Cake

16:00 Claudia Schon: Tackling commonsense reasoning problems with a first-order logic reasoner

16:45 Discussion

18:30 Dinner

Tuesday September 14, 2021

09:15 Tutorial: Martin Suda: Integrating machine learning into saturation-based ATPs

10:15 Discussion

10:45 Coffee/tea break

11:15 Moa Johansson: Conjecture synthesis, lemma discovering and reasoning

11:45 Discussion

12:15 Lunch

14:00 Tutorial: Pascal Fontaine: Proofs in SMT

15:00 Discussion

15:30 Cake

16:00 Jasmin Blanchette: Integrating higher-order reasoning into superposition

16:30 Discussion

17:00 Stéphane Graham-Lengrand: From MCSAT to CDSAT and beyond

17:45 Discussion

18:30 Dinner

Wednesday September 15, 2021

09:00 Tutorial: Alexander Bentkamp, Jasmin Blanchette, and Sophie Touret: Higher-order superposition in action

10:00 Discussion

10:30 Coffee/Tea break

10:45 Ullrich Hustadt: Efficient local reductions to basic modal logic

11:15 Discussion

11:30 Renate Schmidt: Development and integration of deduction for the medical ontology SNOMED CT

12:00 Discussion

12:15 Lunch

14:00 Outing

Thursday September 16, 2021

09:00 Sophie Tourret: On what is wrong with higher-order SMT and what we are doing to fix it

09:30 Discussion

10:00 Magnus Myreen: On verified proof checkers

10:30 Discussion

10:45 Coffee/Tea break

11:15 Alexander Bentkamp: Integrating optimization solvers into proof assistants

11:45 Discussion

12:15 Lunch

14:00 Tutorial: Ruzica Piskac: On reasoning about multisets

15:00 Discussion

15:30 Cake

16:00 Patrick Koopman: Using deduction within methods for non-standard reasoning in description logics

16:30 Discussion

17:00 Erika Abraham: Surprise topic!

17:30 Discussion

18:30 Dinner

Friday September 17, 2021

09:15 Stephan Schulz: Deduction as a service

09:45 Discussion

10:00 Sarah Winkler: Linear-time verification of data-aware dynamic systems with arithmetic

10:30 Discussion

10:45 Coffee/Tea break

11:15 Philipp Rümmer: Deductive verification of Horn clauses for model checking

11:45 Discussion

12:00 Farewell

12:15 Lunch