

Seminar 26091 – Revisiting the Foundations of Deduction in a New World

This schedule is currently under construction and will be updated during the seminar. Please check the resource page of this seminar for the most recent version. For contributing a talk/tutorial contact the organizers.

Monday

09:00		Welcome and Introduction
09:45		Coffee break
10:15	Dominik Schreiber	Parallel Constraint Solving
11:15	Armin Biere	SAT on 256 core processor
11:45		Discussion
12:00		Lunch break
14:00	Josef Urban	Simple and Cheap Autoformalization for Everyone
14:30	Geoff Sutcliffe	ShZZaM: An LLM+ATP Natural Language to Logic Translator
15:00	Martin Suda	Neural Vampire: Datasets, Strategies, Schedules
15:30		Coffee and cake
16:00	Cezary Kaliszyk	Collaborative Autoformalization with LLM Agents
16:30	Moa Johansson	Lemmanaid: Neuro-Symbolic Lemma Conjecturing
17:00		Discussion
18:00		Dinner

Tuesday

09:00	Chris Benzmueller	Faithful Logic Embeddings in HOL: Deep and Shallow, Propositional and Quantified
10:00		Coffee break
10:30	Jochen Hoenicke	Models are not Enough: Proving Satisfiability in SMT
11:00	Maria Paola Bonacina	Arrays, Maps, and Vectors With Abstract Domain
11:30		Discussion
12:00		Lunch break
14:00	Jürgen Giesl	Decision Procedures for Termination and Complexity and Their Use in Practice
14:30	Carsten Fuhs	Incompleteness, heuristics, and parallelism for termination analysis in AProVE
15:00		Discussion
15:30		Coffee and cake
16:00	Franz Brausse	Exact Real Computations for Rigorous Solutions
16:30	Jasper Nalbach	Exploration-guided Methods for Non-linear Real Arithmetic
17:30		Discussion
18:00		Dinner

Wednesday

09:00	Yoni Zohar	My attempts to save politeness
10:00		Coffee break
10:30	Aart Middeldorp	Extending Higher-Order Critical Pairs
11:00	Cynthia Kop	Higher-order rewriting in an open world
11:30		Discussion
12:00		Lunch break
14:00		Excursion (Local hike to lake)
18:00		Dinner

Thursday		
09:00	Mathias Fleury	Have You Cheated Enough for the SAT Competition?
09:30	Alessandro Gianola	First-Order Linear Temporal Logic via SMT
10:00		Coffee break
10:30	Lydia Kondylidou	Tao's Equational Proof Challenge Accepted
11:00	Franz Baader	A new world solution to an old world problem
11:30		Discussion
12:00		Lunch break
14:00	Christoph Weidenbach	An Impressive Result from the Old World, and Some Thoughts About the New World
14:30	Marton Hajdu, Petra Hozzová	Completeness of Synthesis despite Incompleteness
15:00		Discussion
15:30		Coffee and cake
16:00	Viorica Sofronie-Stokkermans	Symbol Elimination, Uniform Interpolation and Applications
16:30	Renate Schmidt	SOQE and Uniform Interpolation via Saturation for Bath Path Logic and the Ordered Fragment
17:00		Discussion
18:00		Dinner
Friday		
09:00	Mathias Fleury	The hardest code I have ever written: LRAT for Clausal Congruence Closure
09:30	Yevgeny Kazakov	Computing minimal unsatisfiable and maximal satisfiable subsets of propositional Horn formulas using reductions to incremental SAT
10:00		Coffee break
10:30		Your predictions and goals for the new world (discussion)
11:30		Closing and wrap-up
12:00		Lunch