

Monday September 2, 2019

9:00-10:15 Informal Introductions

10:15-10:45 Coffee break

10:45-12:00 Long talk by Martin Grohe: Learning Logically Specified Problems

12:15 Lunch

2:30-3:30

Madhusadan Parthasarathy: Learning logics, Program synthesis, and Neural nets

Xujie Si: Synthesizing Datalog programs using numerical relaxation

3:30-4:30 Afternoon cake and coffee

4:30-5:30

Luc de Raedt: Learning Constraints from Examples

Carsten Lutz: Learning Description Logic Concepts: Complexity and (Un)decidability

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Tuesday September 3, 2019

9:00-10:15 Long talk by Guy Van den Broeck: Statistical Relational Learning

10:15-10:45 Coffee break

10:45-12:15

Nils Jansen: Counterexample-guided strategy improvement for POMDPs using Recurrent Neural Networks

Dana Fisman: Query learning of Omega Regular Languages

Dan Olteanu: Learning models over relational databases

12:15 Lunch

2:30-3:30 Daniel Huang: on learning to prove

Balder ten Cate: machine learning and knowledge graphs

3:30-4:30 Afternoon cake and coffee

4:30-5:45 Long talk by Joseph Urban: Combining learning and reasoning over large formal math corpora

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Wednesday September 4, 2019

9-10:

Dan Suci: Information Theory and Data Management

James Freitag: Bounds in Query Learning

10:00-10:30 Coffee Break

10:30-11:10 Lucian Popa: Entity Resolution: A Case for Logic and Learning + Demo

11:10-12:15 Discussion of Open problems

12:15 Lunch

Afternoon excursion

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Thursday September 5, 2019

9:00-10:00

Vaishak Belle: Abstracting Probabilistic Models

Angelika Kimmig: Deep Problog: integrating Logic, Probability, and Neural Networks

10:00-10:30 Coffee break

10:30-12:00

Cristian Szegedy: Higher order theorem proving by deep learning

Ismail Ceylan: Neural Model Counting

Brendan Juba: Implicitly Learning to Reason in First-order Logic

12:15 Lunch

2:30-3:30

Sriram Natarajan: Human allied probabilistic logic learning

Ana Ozaki: Learning ontologies: a question-answer game

3:30-4:30 Afternoon cake and coffee

4:30-6 Break-out/Discussion follow-up sessions

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Friday September 6, 2019

9:00-10:30

Mattheus Malinowski: Intuitive Mathematics: Building a proof system with reinforcement learning

Ivan Gavran: Learning formal representation from data: applications in human-robot communication and reinforcement learning

Zsolt Zombori: Reinforcement learning and theorem proving

10:30-11

11:00- 12 wrap-up session