#### **Stochastic Games**

### Monday

16:00–17:30 OPEN PROBLEM SESSION 2

18:00-20:00 Dinner

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9:00–10:30 Introduction and Tutorial 1

9:00 - 9:45 Everyone
Short introduction (30 sec, no slides)
9:45 - 10:30 Yinyu Ye
Progresses and Open Questions on the Markov Decision / Game Process
10:30–11:00 Coffee break
11:00–12:00 Open problem session 1
12:15–14:00 Lunch
14:00–15:30 Tutorial 2

14:00 - 15:00 Dave Parker
Tutorial: PRISM-games
15:00 - 15:10 Q & A
15:10 - 15:30 Ann Nowé
An Overview of Trustworthy Reinforcement Learning
15:30–16:00 Coffee break
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# **Tuesday**

Bisimilar Latent Space Models

18:00-20:00 Dinner

9:00-10:30 Invited talk 1 9:00 - 10:00 Kousha Etessami Branching MDPs, branching stochastic games, and generalizations of Newton's method 10:00 - 10:30 Q & A 10:30-11:00 Coffee break 11:00-12:00 Contributed talks 1 11:00 - 11:20 Sebastian Junges Open problems in parametric MDPs 11:20 - 11:40 Patrick Totzke Solving concurrent games in PSPACE 11:40 - 12:00 Corto Mascle Strategy shapes for population games 12:15-14:00 Lunch 14:00–15:30 Working session 1 14:00 - 15:30 Corto Mascle Population games 14:00 - 15:30 Jan Kretinsky Strategy representations and benchmarks 14:00 - 15:30 Patrick Totzke Solving concurrent games in PSPACE 14:00 - 15:30 Guy Avni Auctions for composing strategies 15:30–16:00 Coffee break 16:00-17:00 Contributed talks 2 16:00 - 16:20 James Main Complexity and Representations of Controllers in Reactive Synthesis 16:20 - 16:40 Pierre Vandenhove Decidability of Omega-Regular Objectives for POMDPs with Revelations 16:40 - 17:00 Florent Delgrange Activating Formal Verification of Deep RL Policies by Model Checking

### Wednesday

9:00-10:30 Invited talk 2

9:00 - 10:00 Aaron Sidford

Invited talk: Theoretical Advances in Efficiently Solving Markov Decision Processes

10:00 - 10:30 Q & A

10:30-11:00 Coffee break

11:00-12:00 Contributed talks 3

11:00 - 11:20 Stéphane Gaubert

Solving tropical polynomial systems using parametric mean-payoff games

11:20 - 11:40 Marianne Akian

Solving irreducible stochastic mean-payoff games and entropy games by relative Krasnoselskii-Mann iteration

11:40 - 12:00 Sebastian Haslebacher

Similarities between ARRIVAL and Simple Stochastic Games

12:15-14:00 Lunch

14:00-17:00 HIKE

18:00-20:00 Dinner

# **Thursday**

9:00-10:30 Invited talk 3

9:00 - 10:00 Sven Schewe

Automata for Profit and Pleasure

10:00 - 10:30 Q & A

10:30-11:00 Coffee break

11:00-12:00 Contributed talks 4

11:00 - 11:20 Vidya K. Muthukumar

Are turn-based stochastic games really easier than simultaneous-play stochastic games?

11:20 - 11:40 Jakob Piribauer

Synthesizing "more probabilistic" systems

11:40 - 12:00 Dani Dorfman

Improved bounds for strategy improvement algorithms for energy games

11:40 - 12:00

12:15-14:00 Lunch

14:00–15:30 Working session 3

15:30–16:00 Coffee break

16:00-17:00 Recap of the week

18:00-20:00 Dinner

# **Friday**

9:00-10:00 Still open problem session

10:00-10:30 Coffee break

10:30-12:00 Working session 4

12:15-14:00 Lunch