Workshop on Game Theory and Machine Learning

LSE, Columbia House (69 Aldwych), 1st floor Conference Room

Th-Fr 19-20 October 2023

funded by the CIVICA project EquiLearn (LSE, Bocconi, Stockholm School of Economics)
hosted by the LSE Data Science Institute

Thursday 19 October 2023

Time	Session
9:15 - 9:30	*Welcome*
9:30 - 10:30	**Ted Turocy**, University of East Anglia, and **Rahul Savani**, University of Liverpool and The Turing Automated Analysis of Strategic Interactions: The Roadmap for Gambit 17 and Beyond
10:30 - 10:50	Discussion
10:50 - 11:20	*Coffee Break*
11:20 - 12:00	**Galit Ashkenazi-Golan**, **Katerina Papadaki**, **Bernhard von Stengel**, **Sahar Jahani**, and **Edward Plumb**, LSE What We Learned from EquiLearn
12:00 - 12:30	Discussion
12:30 - 14:00	*Lunch*
14:00 - 14:30	**Yongzhao Wang**, The Turing An Introduction to Empirical Game-Theoretic Analysis
14:30 - 14:45	Discussion
14:45 - 15:15	**Konstantinos Varsos**, The Turing Forward Looking Best-Response Multiplicative Weights Update Methods for Bilinear Zero-Sum Games
15:15 - 15:30	Discussion
15:30 - 15:45	*Coffee Break*
15:45 - 16:15	**Clemens Possnig**, University of Waterloo Strategic Communication and Algorithmic Advice
16:15 - 16:30	Discussion
16:30 - 17:00	General Discussion
17:00	End of day 1
19:00	*Workshop Dinner*

Friday 20 October 2023

9:15 - 9:45	**Dominik Karos**, University of Bielefeld From Prejudice to Racial Profiling and Back
9:45 - 10:00	Discussion
10:00 - 10:30	**Andrea Celli**, Bocconi University No-Regret Learning in Bilateral Trade via Global Budget Balance
10:30 - 10:45	Discussion
10:45 - 11:00	*Coffee Break*
11:00 - 11:30	**Maryam Kamgarpour**, EPFL Lausanne Learning Equilibria with Payoff-Based Information
11:30 - 11:45	Discussion
11:45 - 12:15	**Cesare Carissimo**, ETH Zurich Cooperative Outcomes of Q-Learning in Congestion Games
12:15 - 12:30	Discussion
12:30 - 14:00	*Lunch*
14:00 - 14:30	**Bei Peng**, University of Liverpool Overcoming Relative Overgeneralisation for Cooperative Multi-Agent Reinforcement Learning
14:30 - 14:45	Discussion
14:45 - 15:15	**Stefanos Leonardos**, King's College London Exploration-Exploitation in Multi-Agent Learning
15:15 - 15:30	Discussion
15:30 - 15:45	*Coffee Break*
15:45 - 16:15	**Maria Polukarov**, King's College London Reaching Collective Decisions
16:15 - 16:30	Discussion
16:30 - 17:00	General Discussion
17:00	Workshop ends