Auckland Harbour

AAMAS2024

AUCKLAND NZ

The 23rd International Conference on Autonomous Agents and Multiagent Systems

May 6-10, 2024, Auckland, New Zealand

Hobbiton Movie Set

Milford Sound
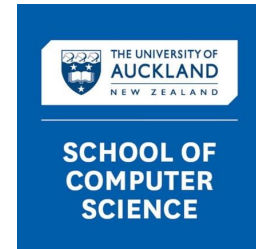
Mount Taranaki

Lake Tekapō Stargazing

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Online Edition.
Edit: Yang Chen
(Local Chair, University of Auckland)

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Program Overview

	Mon 6 May	Tue 7 May		Wed 8 May		Thu 9 May		Fri 10 May
8:00-8:30	Registration Opens	Registration Opens		Registration Opens		Registration Opens		Registration Opens
8:30-8:45	DC + Workshops + Tutorials	Workshops + Tutorials	AIDBEI Diversity Activity					
8:45-9:00				Opening Session				
9:00-10:00				Keynote 1: Liz Sonenberg		Keynote 2: Michael Winikoff		Keynote 3: Ann Nowe
10:00-10:15	Coffee break	Coffee break		Coffee break / Demos		Coffee break / Demos		Coffee break
10:15-10:30					1 Competition		2 parallel Competitions	
10:30-12:30	DC + Workshops + Tutorials	Workshops + Tutorials		6 parallel Technical sessions		6 parallel Technical sessions		6 parallel Technical sessions
12:30-14:00	Lunch Break	Lunch Break		Lunch Break / Posters		Lunch Break / Posters		Lunch Break / Posters
14:00-16:00	DC + Workshops + Tutorials	Workshops + Tutorials		6 parallel Technical sessions	1 Competition	6 parallel Technical sessions	2 parallel Competitions	5 parallel Technical sessions + Blue Sky 2 session
16:00-16:30	Coffee break	Coffee break		Coffee break / Demos		Coffee break / Demos		Coffee break
16:30-17:30	DC + Workshops + Tutorials	Workshops + Tutorials		Panel	Blue Sky 1 session	ACM SIGAI / AAMAS Autonomous Agents Award: Catholijn Jonker		Community meeting + Closing
17:30-18:00				Dissertation award talk				
18:00-18:30								
18:30-...		Opening Reception				Banquet		

5

Program At-a-Glance: Monday

Monday 6 May 2024	
8:00-8:30	**Registration Opens**
8:30-10:00	**Workshops:** EMAS (Jade Room 2), ALA / RLG (Great Room 1), EXTRAAMAS (Jade Room 3), ARMS (Great Room 2), Social Good (Crystal Room 1), MABS (Jade Room 1), GAIW (Great Room 4) **Tutorials:** T1. Fairness in the sharing economy and stochastic models for MAS (Vista 1), T2. Handling Multiple Objectives in Single and Multi-Agent Reinforcement Learning (Crystal Room 2), T8. Tutorial on Multi-Agent Optimization (Gallery 4), T9. Unlocking Exploration: Self-Motivated Agents Thrive on Memory-Driven Curiosity (Gallery 1) **Doctoral Consortium** (Great Room 3)
10:00-10:30	**Coffee break**
10:30-12:30	**Workshops:** EMAS (Jade Room 2), ALA / RLG (Great Room 1), EXTRAAMAS (Jade Room 3), ARMS (Great Room 2), Social Good (Crystal Room 1), MABS (Jade Room 1), GAIW (Great Room 4) **Tutorials:** T1. Fairness in the sharing economy and stochastic models for MAS (Vista 1), T2. Handling Multiple Objectives in Single and Multi-Agent Reinforcement Learning (Crystal Room 2), T8. Tutorial on Multi-Agent Optimization (Gallery 4), T9. Unlocking Exploration: Self-Motivated Agents Thrive on Memory-Driven Curiosity (Gallery 1) **Doctoral Consortium** (Great Room 3)
12:30-14:00	**Lunch break**
14:00-16:00	**Workshops:** EMAS (Jade Room 2), ALA / RLG (Great Room 1), EXTRAAMAS (Jade Room 3), ARMS (Great Room 2), Social Good (Crystal Room 1), MABS (Jade Room 1), GAIW (Great Room 4) **Tutorials:** T1. Fairness in the sharing economy and stochastic models for MAS (Vista 1), T4. Differentiable Agent-Based Models: Systems, Methods and Applications (Crystal Room 2), T7. Autonomous agents and ABS applied to Bond Markets: Can we build a better market using ABM's? (Gallery 4) **Doctoral Consortium** (Great Room 3)

16:00-16:30	**Coffee break**
16:30-18:00	**Workshops:** EMAS (Jade Room 2), ALA / RLG (Great Room 1), EXTRAAMAS (Jade Room 3), ARMS (Great Room 2), Social Good (Crystal Room 1), MABS (Jade Room 1), GAIW (Great Room 4) **Tutorials:** T1. Fairness in the sharing economy and stochastic models for MAS (Vista 1), T4. Differentiable Agent-Based Models: Systems, Methods and Applications (Crystal Room 2), T7. Autonomous agents and ABS applied to Bond Markets: Can we build a better market using ABM's? (Gallery 4) **Doctoral Consortium** (Great Room 3)

Program At-a-Glance: Tuesday

Tuesday 7 May 2024	
8:00-8:30	**Registration Opens**
8:30-10:00	**Workshops:** EMAS (Jade Room 1), ALA / RLG (Great Room 1), OptLearnMAS (Great Room 2), COINE (Crystal Room 1), C-MAS (Crystal Room 2), SCaLA (Great Room 3), MASSpace (Gallery 1), RaD-AI (Vista 1) **Tutorials:** T3. *Bandit Learning in Mechanism Design: Matching Markets and Beyond* (Jade Room 3), T5. *Recent Developments in Mixed Fair Division* (Gallery 4), T11. *Towards Causal Foundations of Safe AI* (Jade Room 1) **AIDBEI Diversity Activity** (Gallery 3)
10:00-10:30	**Coffee break**
10:30-12:30	**Workshops:** EMAS (Jade Room 1), ALA / RLG (Great Room 1), OptLearnMAS (Great Room 2), COINE (Crystal Room 1), C-MAS (Crystal Room 2), SCaLA (Great Room 3), MASSpace (Gallery 1), RaD-AI (Vista 1) **Tutorials:** T3. *Bandit Learning in Mechanism Design: Matching Markets and Beyond* (Jade Room 3), T5. *Recent Developments in Mixed Fair Division* (Gallery 4), T11. *Towards Causal Foundations of Safe AI* (Jade Room 1) **AIDBEI Diversity Activity** (Gallery 3)

12:30-14:00	**Lunch break**
14:00-16:00	**Workshops:** EMAS (Jade Room 1), ALA / RLG (Great Room 1), OptLearnMAS (Great Room 2), COINE (Crystal Room 1), C-MAS (Crystal Room 2), SCaLA (Great Room 3), MASSpace (Gallery 1), RaD-AI (Vista 1) **Tutorials:** T6. *Automated Planning* (Jade Room 3), T10. Reinforcement Learning for Operations Research: Unlocking New Possibilities (Gallery 4), T12. Rethinking Online Content Ecosystem in the Era of Generative AI: A Multiagent System Perspective (Jade Room 1)
16:00-16:30	**Coffee break**
16:30-18:00	**Workshops:** EMAS (Jade Room 1), ALA / RLG (Great Room 1), OptLearnMAS (Great Room 2), COINE (Crystal Room 1), C-MAS (Crystal Room 2), SCaLA (Great Room 3), MASSpace (Gallery 1), RaD-AI (Vista 1) **Tutorials:** T6. *Automated Planning* (Jade Room 3), T10. Reinforcement Learning for Operations Research: Unlocking New Possibilities (Gallery 4), T12. Rethinking Online Content Ecosystem in the Era of Generative AI: A Multiagent System Perspective (Jade Room 1)
18:30-...	**Welcome Reception** Location: Auckland University of Technology's Open Forum, a 500m walk from the Cordis Hotel

Program At-a-Glance: Wednesday

Wednesday 8 May 2024	
8:00-8:30	**Registration Opens**
8:30-8:50	**Conference Opening (Mihi whakatau)** Room: Great Room 1&2
9:00-10:00	**Keynote: Liz Sonenberg** Room: Great Room 1&2

10:00-10:15 10:15-10:30	**Coffee break** Room: Great Room 3&4 and Pre-Function Area **Demos** Room: Great Room 3&4
10:15-12:30 10:30-12:30	**Competition:** Imperfect Information Card Games Competition (Gallery 3) **Technical Sessions:** RL1 (Crystal Room 1), RL2 (Crystal Room 2), KR1 (Jade Room 1), SC1 (Jade Room 2), COIN (Jade Room 3), APP1 (Gallery 1)
12:30-14:00	**Lunch Break + Posters** Room: Great Room 3&4 and Pre-Function Area
14:00-16:00 14:00-16:30 16:00-16:30	**Technical Sessions:** RL3 (Crystal Room 1), LEARN1 (Crystal Room 2), KR2 (Jade Room 1), SC2 (Jade Room 2), HUMAN1 (Jade Room 3), EMAS (Gallery 1) **Competition:** The Hybrid Intelligence Competition (Gallery 4) **Coffee break** + **Demos** Room: Great Room 3&4 and Pre-Function Area
16:30-17:30	**Panel Session** Room: Great Room 1&2 **Technical Session**: Blue Sky 1 (Crystal Room 1)
17:30-18:30	**Dissertation award talk** Room: Great Room 1&2

Program At-a-Glance: Thursday

Thursday 9 May 2024	
8:00-9:00	**Registration Opens**
9:00-10:00	**Keynote: Michael Winikoff** Room: Great Room 1&2
10:00-10:15	**Coffee break**

10:15-10:30	Room: Great Room 3&4 and Pre-Function Area **Demos** Room: Great Room 3&4
10:15-12:30 10:30-12:30	**Competitions:** Computational Economics Competition (Gallery 3), Drone Routing Problems Challenge Competition (Gallery 4) **Technical Sessions:** RL4 (Crystal Room 1), RL5 (Crystal Room 2), KR3 (Jade Room 1), SC3 (Jade Room 2), MA1 (Jade Room 3), HUMAN2 (Gallery 1)
12:30-14:00	**Lunch Break + Posters** Room: Great Room 3&4 and Pre-Function Area
14:00-16:00 14:00-16:30 16:00-16:30	**Technical Sessions:** RL6 (Crystal Room 1), RL7(+LEARN) (Crystal Room 2), KR4 (Jade Room 1), SC4 (Jade Room 2), MA2 (Jade Room 3), SIM1 (Gallery 1) **Competition:** The 15th Automated Negotiating Agents Competition (Gallery 3) Maritime Capture-the-Flag (MCTF) Competition (Gallery 4) **Coffee break + Demos** Room: Great Room 3&4 and Pre-Function Area
16:30-17:30	**ACM SIGAI / AAMAS Autonomous Agents Award: Catholijn Jonker** Room: Great Room 1&2
17:30-18:30	**Buses to Banquet**
18:30-...	**Banquet** Location: Under the Dome, Auckland Museum

Program At-a-Glance: Friday

Thursday 9 May 2024	
8:00-9:00	**Registration Opens**

9:00-10:00	**Keynote: Ann Nowe** Room: Great Room 1&2
10:00-10:15	**Coffee break** Room: Great Room 3&4 and Pre-Function Area
10:30-12:30	**Technical Sessions:** RL8 (Crystal Room 1), RL9 (Crystal Room 2), SC5 (Jade Room 1), MA3 (Jade Room 2), SIM2 (Jade Room 3), ROBOT (Gallery 1)
12:30-14:00	**Lunch Break + Posters** Room: Great Room 3&4 and Pre-Function Area
14:00-16:00	**Technical Sessions:** RL10 (Crystal Room 1), LEARN2 (Crystal Room 2), SC6 (Jade Room 1), SIM3 (Jade Room 2), APP+ROB+PLAN (Jade Room 3), Blue Sky 2 (Gallery 1)
16:00-16:30	**Coffee break** Room: Great Room 3&4 and Pre-Function Area
16:30-17:30	**Community meeting + Closing** Room: Great Room 1&2

List of Workshops

ARMS: Autonomous Robots and Multirobot Systems
Mon 6 May, Great Room 2

OptLearnMAS: Optimization and Learning in Multi-Agent Systems
Tue 7 May, Great Room 2

Social Good: 5th International Workshop on Autonomous Agents for Social Good
Mon 6 May, Crystal Room 1

EMAS: 12th International Workshop on Engineering Multi-Agent Systems
Mon 6 and Tue 7 May, Jade Room 2

COINE: International Workshop on Coordination, Organizations, Institutions, Norms and Ethics for Governance of Multi-Agent Systems
Tue 7 May, Crystal Room 1

MASSpace: International Workshop on Autonomous Agents and Multi-Agent Systems for Space Applications
Tue 7 May, Gallery 1

RLG: Reinforcement Learning in Games
Mon 6 and Tue 7 May, Great Room 1

MABS: The 25th International Workshop on Multi-Agent-Based Simulation
Mon 6 May, Jade Room 1

C-MAS: The 2nd International Workshop on Citizen-Centric Multiagent
Tue 7 May, Crystal room 2

ALA: Adaptive and Learning Agents
Mon 6 and Tue 7 May, Great Room 1

EXTRAAMAS: 6th International Workshop on EXplainable and TRansparent AI and Multi-Agent Systems
Mon 6 May, Jade Room 3

GAIW: 6th Games, Agents, and Incentives Workshop
Mon 6 May, Great Room 4

SCaLA: Workshop on Social Choice and Learning Algorithms
Tue 7 May, Great Room 3

RaD-AI: Rebellious and Disobedient Agents in Artificial Intelligence
Tue 7 May, Vista 1

Doctoral Consortium Presentations

Timetable

8:00 – 8:30	**Arrival & Registration**
8:30 – 9:00	**Opening Session**
9:00 – 10:00	**Elevator Pitches (four minutes per speaker)**
10:00 – 11:30	**Poster Session (and coffee break)**
11:30 – 12:30	**Plenary Discussion. Topic: Multi-agent systems at the age of generative AI. Chair: Stefan Sarkadi (King's College London, UK)**
12:30 – 14:00	**Lunch (provided)**
14:00 – 15:00	**Invited Talk by Maria Gini (University of Minnesota, USA). Title: A research mindset**
15:00 – 16:00	**Elevator Pitches (four minutes per speaker)**
16:00 – 17:00	**Poster Session (and coffee break)**
17:00 – 18:00	**Career Panel**

If you present in the morning, put up your poster in Room 9 before 9:00. If you present in the afternoon, put up your poster in Room 9 before 14:00

Students presenting in the morning

1. Tamara C.P. Florijn, **Negotiation strategies for one-to-many negotiation with partial deals**

2. Yihan Dong, **The Multi-agent System based on LLM for Online Discussions**

3. Yiwei Lyu, **Interactive Control and Decision-Making for Multi-Robots Systems**

4. Shiji Xing, **Allocating Resources with Imperfect Information: from Cardinal to Epistemic Fairness**

5. Nicholas Teh, **Distributive and Temporal Fairness in Algorithmic Collective Decision-Making**

6. Jiaxun Cui, **Communication and Generalization in Multi-Agent Learning**

7. Bram Grooten, **Large Learning Agents: Towards continually aligned robots with scale in RL**

8. Shivam Goel, **Towards building Autonomous AI Agents and Robots for Open World Environments**

9. Victor Gimenez-Abalos, **Toward explainable agent behaviour**

10. Pascal van der Vaart, **Bayesian Model-Free Deep Reinforcement Learning**

11. Jérôme Botoko Ekila, **Emergence of Linguistic Conventions In Multi-Agent Systems Through Situated Communicative Interactions**

12. Erin Richardson, **Predicting and Protecting the Cognitive Health of Operators in Isolated, Confined, and Extreme Environments**

Students presenting in the afternoon

1. Eura Nofshin, **Leveraging Human Models to Personalize AI Interventions for Behavior Change**

2. Baiting Luo, **Adaptive Decision-Making in Non-Stationary Markov Decision Processes**

3. Zhicheng Zhang, **Advancing Sample Efficiency and Explainability in Multi-Agent Reinforcement Learning**

4. Yash Shukla, **Formal and Natural Language assisted Curriculum Generation for Reinforcement Learning Agents**

5. Balint Gyevnar, **Building Trustworthy Human-Centric Autonomous Systems Via Explanations**

6. Himanshu Gupta, **Efficient Continuous Space BeliefMDP Solutions for Navigation and Active Sensing**

7. Gautham Vasan, **Autonomous Skill Acquisition for Robots Using Graduated Learning**

8. Jarrod Shipton, **Cooperative Multi-Agent Reinforcement Learning in Convention Reliant Environments**

9. Iosif Apostolakis, **Abstraction in Non-Monotonic Reasoning**

10. Minghong Geng, **Scaling up Cooperative Multi-agent Reinforcement Learning Systems**

11. Pedro Santos, **Generalizing, Objective-Specification in Markov Decision Processes**

12. Calarina Muslimani, **Leveraging Sub-Optimal Data for Human-in-the-Loop Reinforcement Learning**

Detailed Program

See the map of poster boards on page .

Wednesday 8 May

8:30–9:00	**Opening Session**
Room: Great Room 1&2	

9:00-10:00	**Keynote: Liz Sonenberg**
Room: Great Room 1&2	Title: Agents and Humans: Trajectories and Perspectives

10:00-10:30	**Coffee break + Demos**
	Room: Great Room 3&4 and Pre-Function Area

10:30-12:30	**Technical Session: RL1**
Room: Crystal Room 1	Poster Boards: 49A – 61A

Title	Authors
Successively Pruned Q-Learning: Using Self Q-function to Reduce the Overestimation	Zhaolin Xue, Lihua Zhang and Zhiyan Dong
A Trajectory Perspective on the Role of Data Sampling Techniques in Offline Reinforcement Learning	Jinyi Liu, Yi Ma, Jianye Hao, Yujing Hu, Yan Zheng, Tangjie Lv and Changjie Fan
Continual Optimistic Initialization for Value-Based Reinforcement Learning	Sheelabhadra Dey, James Ault and Guni Sharon
PAS: Probably Approximate Safety Verification of Reinforcement Learning Policy Using Scenario Optimization	Arambam James Singh and Arvind Easwaran
Episodic Reinforcement Learning with Expanded State-reward Space	Dayang Liang, Yaru Zhang and Yunlong Liu
Continuous Monte Carlo Graph Search	Kalle Kujanpää, Amin Babadi, Yi Zhao, Juho Kannala, Alexander Ilin and Joni Pajarinen
Beyond Surprise: Improving Exploration Through Surprise Novelty	Hung Le, Kien Do, Dung Nguyen and Svetha Venkatesh

10:30-12:30	**Technical Session: RL2**
Room: Crystal Room 2	Poster Boards: 49A – 61A

Title	Authors

Title	Authors
A Model-Based Solution to the Offline Multi-Agent Reinforcement Learning Coordination Problem	Paul Barde, Jakob Foerster, Derek Nowrouzezahrai and Amy Zhang
Safe Reinforcement Learning with Free-form Natural Language Constraints and Pre-Trained Language Models	Xingzhou Lou, Junge Zhang, Ziyan Wang, Kaiqi Huang and Yali Du
Towards Generalizability of Multi-Agent Reinforcement Learning in Graphs with Recurrent Message Passing	Jannis Weil, Zhenghua Bao, Osama Abboud and Tobias Meuser
Simultaneously Achieving Group Exposure Fairness and Within-Group Meritocracy in Stochastic Bandits	Subham Pokhriyal, Shweta Jain, Ganesh Ghalme, Swapnil Dhamal and Sujit Gujar
Policy-regularized Offline Multi-objective Reinforcement Learning	Qian Lin, Chao Yu, Zongkai Liu and Zifan Wu
Multi-Agent Alternate Q-Learning	Kefan Su, Siyuan Zhou, Jiechuan Jiang, Gan Chuang, Xiangjun Wang and Zongqing Lu
MABL: Bi-Level Latent-Variable World Model for Sample-Efficient Multi-Agent Reinforcement Learning	Aravind Venugopal, Stephanie Milani, Fei Fang and Balaraman Ravindran

10:30-12:30	Technical Session: KR1
Room: Jade Room 1	Poster Boards: 67A – 73A

Title	Authors
Hyper Strategy Logic	Raven Beutner and Bernd Finkbeiner
Generalized Strategy Synthesis of Infinite-State Impartial Combinatorial Games via Exact Binary Classification	Liangda Fang, Meihong Yang, Dingliang Cheng, Yunlai Hao, Quanlong Guan and Liping Xiong
Obstruction Alternating-time Temporal Logic: a Strategic Logic to Reason about Dynamic Models	Davide Catta, Jean Leneutre, Vadim Malvone and Aniello Murano
Playing Quantitative Games Against an Authority: On the Module Checking Problem	Wojtek Jamroga, Munyque Mittelmann, Aniello Murano and Giuseppe Perelli
Verification of Stochastic Multi-Agent Systems with Forgetful Strategies	Francesco Belardinelli, Wojtek Jamroga, Munyque Mittelmann and Aniello Murano
Monitoring Second-Order Hyperproperties	Raven Beutner, Bernd Finkbeiner, Hadar Frenkel and Niklas Metzger
Rational Verification with Quantitative Probabilistic Goals	David Hyland, Julian Gutierrez, Krishna Shankaranarayanan and Michael Wooldridge

10:30-12:30	Technical Session: SC1
Room: Jade Room 2	Poster Boards: 73B – 75B, 83A-87A

Title	Authors
Socially Aware Coalition Formation with Bounded Coalition Size	Chaya Levinger, Noam Hazon, Sofia Simola and Amos Azaria
Fine-Grained Liquid Democracy for Cumulative Ballots	Matthias Köppe, Martin Koutecký, Krzysztof Sornat and Nimrod Talmon
On the Potential and Limitations of Proxy Voting: Delegation with Incomplete Votes	Georgios Amanatidis, Aris Filos-Ratsikas, Philip Lazos, Evangelos Markakis and Georgios Papasotiropoulos
To Lead or to be Led: A Generalized Condorcet Jury Theorem under Dependence	Jonas Karge, Juliette-Michelle Burkhardt, Sebastian Rudolph and Dominik Rusovac
A Task-Driven Multi-UAV Coalition Formation Mechanism	Xinpeng Lu, Song Heng, Huailing Ma and Junwu Zhu
Trust in Shapley: A Cooperative Quest for Global Trust in P2P Network	Arti Bandhana, Tomáš Kroupa and Sebastian Garcia
Controlling Delegations in Liquid Democracy	Shiri Alouf-Heffetz, Tanmay Inamdar, Pallavi Jain, Nimrod Talmon and More Yash Hiren

10:30-12:30	**Technical Session: COIN**
Room: Jade Room 3	Poster Boards: 78A – 80B

Title	Authors
RAISE the Bar: Restriction of Action Spaces for Improved Social Welfare and Equity in Traffic Management	Michael Oesterle, Tim Grams, Christian Bartelt and Heiner Stuckenschmidt
Learning and Sustaining Shared Normative Systems via Bayesian Rule Induction in Markov Games	Ninell Oldenburg and Tan Zhi-Xuan
Multi-user norm consensus	Marc Serramia, Natalia Criado and Michael Luck
Norm Enforcement with a Soft Touch: Faster Emergence, Happier Agents	Sz-Ting Tzeng, Nirav Ajmeri and Munindar P. Singh
Generating and Choosing Organizations for Multi-Agent Systems	Cleber Amaral, Jomi Hubner and Stephen Cranefield
A Normative Approach for Resilient Multiagent Systems	Geeta Mahala, Ozgur Kafali, Hoa Khanh Dam, Aditya Ghose and Munindar P. Singh

10:30-12:30	**Technical Session: APP1**
Room: Gallery 1	Poster Boards: 81A-82B, 87B-88B

Title	Authors

Title	Authors
Forecasting and Mitigating Disruptions in Public Bus Transit Services	Chaeeun Han, Jose Paolo Talusan, Dan Freudberg, Ayan Mukhopadhyay, Abhishek Dubey and Aron Laszka
A Cloud-Based Microservices Solution for Multi-Agent Traffic Control Systems	Chikadibia Ihejimba and Rym Z. Wenkstern
Factor Graph Neural Network Meets Max-Sum: A Real-Time Route Planning Algorithm for Massive-Scale Trips	Yixuan Li, Wanyuan Wang, Weiyi Xu, Yanchen Deng and Weiwei Wu
Multi-Agent Reinforcement Learning for Assessing False-Data Injection Attacks on Transportation Networks	Taha Eghtesad, Sirui Li, Yevgeniy Vorobeychik and Aron Laszka
Online Decentralised mechanisms for dynamic ridesharing	Nicos Protopapas, Vahid Yazdanpanah, Enrico Gerding and Sebastian Stein
Think Global, Act Local – Agent-Based Inline Recovery for Airline Operations	Yashovardhan S. Chati, Ramasubramanian Suriyanarayanan and Arunchandar Vasan
Atlas-X Equity Financing: Unlocking New Methods to Securely Obfuscate Axe Inventory Data Based on Differential Privacy	Antigoni Polychroniadou, Gabriele Ciprianni, Richard Hua and Tucker Balch

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12:30-14:00   Lunch break + Posters + Demos
Room: Great Room 3&4 and Pre-Function Area

14:00-16:00	**Technical Session: RL3**
Room: Crystal Room 1	Poster Boards: 49A – 61A

Title	**Authors**
MaDi: Learning to Mask Distractions for Generalization in Visual Deep Reinforcement Learning	Bram Grooten, Tristan Tomilin, Gautham Vasan, Matthew E. Taylor, A. Rupam Mahmood, Meng Fang, Mykola Pechenizkiy and Decebal Constantin Mocanu
Analysing the Sample Complexity of Opponent Shaping	Cheuk Chi Kitty Fung, Qizhen Zhang, Chris Lu, Jia Wan, Timon Willi and Jakob Foerster
Scaling Opponent Shaping to High Dimensional Games	Akbir Khan, Timon Willi, Newton Kwan, Andrea Tacchetti, Chris Lu, Edward Grefenstette, Tim Rocktäschel and Jakob Nicolaus Foerster
Context-aware Communication For Multi-agent Reinforcement Learning	Xinran Li and Jun Zhang
Measuring Policy Distance for Multi-Agent Reinforcement Learning	Tianyi Hu, Zhiqiang Pu, Xiaolin Ai, Tenghai Qiu and Jianqiang Yi

| Potential-Based Reward Shaping for Intrinsic Motivation | Grant Forbes, Nitish Gupta, Leonardo Villalobos-Arias, Colin Potts, Arnav Jhala and David Roberts |
| Learning Complex Teamwork Tasks using a Given Sub-task Decomposition | Elliot Fosong, Muhammad Arrasy Rahman, Ignacio Carlucho and Stefano Albrecht |

14:00-16:00 Room: Crystal Room 2	**Technical Session: LEARN1** Poster Boards: 49A – 61A

Title	**Authors**
Neural Population Learning beyond Symmetric Zero-Sum Games	Siqi Liu, Luke Marris, Marc Lanctot, Georgios Piliouras, Joel Leibo and Nicolas Heess
ODEs learn to walk: ODE-Net based data-driven modeling for crowd dynamics	Chen Cheng and Jinglai Li
Whom to Trust? Elective Learning for Distributed Gaussian Process Regression	Zewen Yang, Xiaobing Dai, Akshat Dubey, Sandra Hirche and Georges Hattab
It Is Among Us: Identifying Adversaries in Ad-hoc Domains Using Q-valued Bayesian Estimations	Matheus Aparecido Do Carmo Alves, Amokh Varma, Yehia Elkhatib and Leandro Soriano Marcolino
Oh, Now I See What You Want: Learning Agent Models with Internal States from Observations	Panagiotis Lymperopoulos and Matthias Scheutz
Act as You Learn: Adaptive Decision-Making in Non-Stationary Markov Decision Processes	Baiting Luo, Yunuo Zhang, Abhishek Dubey and Ayan Mukhopadhyay
Holonic Learning: A Flexible Agent-based Distributed Machine Learning Framework	Ahmad Esmaeili, Zahra Ghorrati and Eric Matson

14:00-16:00 Room: Jade Room 1	**Technical Session: KR2** Poster Boards: 67A – 73A

Title	**Authors**
On the Transit Obfuscation Problem	Hideaki Takahashi and Alex Fukunaga
The Reasons that Agents Act: Intention and Instrumental Goals	Francis Rhys Ward, Matt MacDermott, Francesco Belardinelli, Francesca Toni and Tom Everitt
Recourse under Model Multiplicity via Argumentative Ensembling	Junqi Jiang, Francesco Leofante, Antonio Rago and Francesca Toni
Towards a Principle-based Framework for Repair Selection in Inconsistent Knowledge Bases	Said Jabbour, Yue Ma and Badran Raddaoui
Progression with probabilities in the situation calculus: representation and succinctness	Daxin Liu and Vaishak Belle

Explaining the Behavior of POMDP-based Agents Through the Impact of Counterfactual Information	Saaduddin Mahmud, Marcell Vazquez-Chanlatte, Stefan Witwicki and Shlomo Zilberstein
Fast and Slow Goal Recognition	Mattia Chiari, Alfonso Emilio Gerevini, Andrea Loreggia, Luca Putelli and Ivan Serina

14:00-16:00 Room: Jade Room 2	**Technical Session: SC2** Poster Boards: 73B – 75B, 83A-87A

Title	**Authors**
Combining Voting and Abstract Argumentation to Understand Online Discussions	Michael Bernreiter, Jan Maly, Oliviero Nardi and Stefan Woltran
Reducing Optimism Bias in Incomplete Cooperative Games	Filip Úradník, David Sychrovský, Jakub Černý and Martin Černý
On the complexity of Pareto-optimal and envy-free lotteries	Ioannis Caragiannis, Kristoffer Arnsfelt Hansen and Nidhi Rathi
Value alignment in participatory budgeting	Marc Serramia, Maite Lopez-Sanchez, Juan Antonio Rodriguez Aguilar and Stefano Moretti
Learning a Social Network by Influencing Opinions	Dmitry Chistikov, Luisa Fernanda Estrada Plata, Mike Paterson and Paolo Turrini
Catfished! Impacts of Strategic Misrepresentation in Online Dating	Oz Kilic and Alan Tsang
Discovering Consistent Subelections	Łukasz Janeczko, Jérôme Lang, Grzegorz Lisowski and Stanisław Szufa

14:00-16:00 Room: Jade Room 3	**Technical Session: HUMAN1** Poster Boards: 61B – 64B

Title	**Authors**
RACCER: Towards Reachable and Certain Counterfactual Explanations for Reinforcement Learning	Jasmina Gajcin and Ivana Dusparic
LLM-Powered Hierarchical Language Agent for Real-time Human-AI Coordination	Jijia Liu, Chao Yu, Jiaxuan Gao, Yuqing Xie, Qingmin Liao, Yi Wu and Yu Wang
Offline Risk-sensitive RL with Partial Observability to Enhance Performance in Human-Robot	Giorgio Angelotti, Caroline Ponzoni Carvalho Chanel, Adam Henrique Moreira Pinto, Christophe

Teaming	Lounis, Corentin Chauffaut and Nicolas Drougard
Mixed-Initiative Bayesian Sub-Goal Optimization in Hierarchical Reinforcement Learning	Haozhe Ma, Thanh Vinh Vo and Tze-Yun Leong
IDIL: Imitation Learning of Intent-Driven Expert Behavior	Sangwon Seo and Vaibhav V Unhelkar
Unraveling the Tapestry of Deception and Personality: A Deep Dive into Multi-Issue Human-Agent Negotiation Dynamics	Nusrath Jahan and Johnathan Mell
Causal Explanations for Sequential Decision-Making in Multi-Agent Systems	Balint Gyevnar, Cheng Wang, Christopher G. Lucas, Shay B. Cohen and Stefano V. Albrecht

14:00-16:00   Technical Session: EMAS
Room: Gallery 1   Poster Boards: 65A-66B, 76A-77B

Title	Authors
Is Limited Information Enough? An Approximate Multi-agent Coverage Control in Non-Convex Discrete Environments	Tatsuya Iwase, Aurélie Beynier, Nicolas Bredeche, Nicolas Maudet and Jason Marden
Safeguard Privacy for Minimal Data Collection with Trustworthy Autonomous Agents	Mengwei Xu, Louise Dennis and Mustafa A. Mustafa
DuaLight: Enhancing Traffic Signal Control by Leveraging Scenario-Specific and Scenario-Shared Knowledge	Jiaming Lu, Jingqing Ruan, Haoyuan Jiang, Ziyue Li, Hangyu Mao and Rui Zhao
BDI Agents in Natural Language Environments	Alexandre Ichida, Felipe Meneguzzi and Rafael Cardoso
Design Patterns for Explainable Agents (XAg)	Sebastian Rodriguez, John Thangarajah and Andrew Davey
A computational framework of human values for ethical AI	Nardine Osman and Mark d'Inverno
Enabling BDI Agents to Reason on a Dynamic Action Repertoire in Hypermedia Environments	Danai Vachtsevanou, Bruno de Lima, Andrei Ciortea, Jomi Fred Hubner, Simon Mayer and Jérémy Lemée

16:00-16:30   Coffee break + Demos
Room: Great Room 3&4 and Pre-Function Area

16:30-17:00   Technical Session: Blue Sky 1
Room: Crystal Room 1

Title	Authors
Utility-Based Reinforcement Learning: Unifying Single-objective and Multi-objective Reinforcement Learning	Peter Vamplew, Cameron Foale, Conor Hayes, Patrick Mannion, Enda Howley, Richard Dazeley, Scott Johnson, Johan KŠllstršm, Gabriel De O. Ramos, Roxana Radulescu, Willem Ropke and Diederik M. Roijers
Empowering BDI Agents with Generalised Decision-Making	Ramon Fraga Pereira and Felipe Meneguzzi
Designing Artificial Reasoners for Communication	Emiliano Lorini

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16:30–17:30 **Panel**
Location: Great Room 1&2

17:30–18:30 **Dissertation award talk**
Location: Great Room 1&2

Thursday 9 May

8:30–9:00 **Registration Opens**
Location: Great Room

9:00-10:00 **Keynote: Michael Winikoff**
Room: Great Room 1&2 Title: 30 Years of Engineering Multi-Agent Systems: What and Why?

10:00-10:30 **Coffee break + Demos**
Room: Great Room 3&4 and Pre-Function Area

10:30-12:30 **Technical Session: RL4**
Room: Crystal Room 1 Poster Boards: 49A-61A

Title	Authors
Grasper: A Generalist Pursuer for Pursuit-Evasion Problems	Pengdeng Li, Shuxin Li, Xinrun Wang, Jakub Cerny, Youzhi Zhang, Stephen McAleer, Hau Chan and Bo An

Collaborative Deep Reinforcement Learning for Solving Multi-Objective Vehicle Routing Problems	Yaoxin Wu, Mingfeng Fan, Zhiguang Cao, Ruobin Gao, Yaqing Hou and Guillaume Sartoretti
Deep Anomaly Detection via Active Anomaly Search	Chao Chen, Dawei Wang, Feng Mao, Jiacheng Xu, Zongzhang Zhang and Yang Yu
Surge Routing: Event-informed Multiagent Reinforcement Learning for Autonomous Rideshare	Daniel Garces and Stephanie Gil
Distributed Online Rollout for Multivehicle Routing in Unmapped Environments	Jamison Weber, Dhanush Giriyan, Devendra Parkar, Dimitri Bertsekas and Andrea Richa
Boosting Studies of Multi-Agent Reinforcement Learning on Google Research Football Environment: the Past, Present, and Future	Yan Song, Jiang He, Haifeng Zhang, Zheng Tian, Weinan Zhang and Jun Wang
Developing A Multi-Agent and Self-Adaptive Framework with Deep Reinforcement Learning for Dynamic Portfolio Risk Management	Zhenglong Li, Vincent Tam and Kwan L. Yeung

10:30-12:30	**Technical Session: RL5**
Room: Crystal Room 2	Poster Boards: 49A-61A

Title	**Authors**
Informativeness of Reward Functions in Reinforcement Learning	Rati Devidze, Parameswaran Kamalaruban and Adish Singla
Deep Reinforcement Learning with Coalition Action Selection for Online Combinatorial Resource Allocation with Arbitrary Action Space	Tesfay Zemuy Gebrekidan, Sebastian Stein and Timothy Norman
Provably Learning Nash Policies in Constrained Markov Potential Games	Pragnya Alatur, Giorgia Ramponi, Niao He and Andreas Krause
CORE: Towards Scalable and Efficient Causal Discovery with Reinforcement Learning	Andreas Sauter, Nicolò Botteghi, Erman Acar and Aske Plaat
Interactively learning the user's utility for best-arm identification in multi-objective multi-armed bandits	Mathieu Reymond, Eugenio Bargiacchi, Diederik M. Roijers and Ann Nowé
Reinforcement Learning Interventions on Boundedly Rational Human Agents in Frictionful Tasks	Eura Shin, Siddharth Swaroop, Weiwei Pan, Susan Murphy and Finale Doshi-Velez
Confidence-Based Curriculum Learning for Multi-Agent Path Finding	Thomy Phan, Joseph Driscoll, Justin Romberg and Sven Koenig

10:30-12:30	**Technical Session: KR3**
Room: Jade Room 1	Poster Boards: 67A – 73A

Title	Authors
Observer-Aware Planning with Implicit and Explicit Communication	Shuwa Miura and Shlomo Zilberstein
2D-Ptr: 2D Array Pointer Network for Solving the Heterogeneous Capacitated Vehicle Routing Problem	Qidong Liu, Chaoyue Liu, Shaoyao Niu, Cheng Long, Jie Zhang and Mingliang Xu
Covert Planning aganist Imperfect Observers	Haoxiang Ma, Chongyang Shi, Shuo Han, Michael Dorothy and Jie Fu
Modeling Cognitive Biases in Decision-Theoretic Planning for Active Cyber Deception	Aditya Shinde and Prashant Doshi
Combining Theory of Mind and Abductive Reasoning in Agent-Oriented Programming (Extended Abstract)	Nieves Montes, Michael Luck, Nardine Osman, Odinaldo Rodrigues and Carles Sierra
Cooperative Electric Vehicles Planning	Jaël Champagne Gareau, Marc-André Lavoie, Guillaume Gosset and Éric Beaudry
Multimodal Pretrained Models for Verifiable Sequential Decision-Making: Planning, Grounding, and Perception	Yunhao Yang, Cyrus Neary and Ufuk Topcu

10:30-12:30	Technical Session: SC3
Room: Jade Room 2	Poster Boards: 73B – 75B, 77B – 82B, 83A-87B, 88A, 88B

Title	Authors
Weighted Proportional Allocations of Indivisible Goods and Chores: Insights via Matchings	Vishwa Prakash H.V. and Prajakta Nimbhorkar
Keeping the Harmony Between Neighbors: Local Fairness in Graph Fair Division	Halvard Hummel and Ayumi Igarashi
Fairness and efficiency trade-off in two-sided matching	Sung-Ho Cho, Kei Kimura, Kiki Liu, Kwei-Guu Liu, Zhengjie Liu, Zhaohong Sun, Kentaro Yahiro and Makoto Yokoo
Parameterized Guarantees for Almost Envy-Free Allocations	Siddharth Barman, Debajyoti Kar and Shraddha Pathak
A Complete Landscape for the Price of Envy-Freeness	Zihao Li, Shengxin Liu, Xinhang Lu, Biaoshuai Tao and Yichen Tao
Allocating contiguous blocks of indivisible chores fairly revisited	Ankang Sun and Bo Li

| Fair and Efficient Division of a Discrete Cake with Switching Utility Loss | Zheng Chen, Bo Li, Minming Li and Guochuan Zhang |

Title	Authors
Efficient Method for Finding Optimal Strategies in Chopstick Auctions with Uniform Objects Values	Stanisław Kaźmierowski and Marcin Dziubiński
Optimal Flash Loan Fee Function with Respect to Leverage Strategies	Chenmin Wang, Peng Li, Yulong Zeng and Xuepeng Fan
Optimal Referral Auction Design	Rangeet Bhattacharyya, Parvik Dave, Palash Dey and Swaprava Nath
Applying Opponent Modeling for Automatic Bidding in Online Repeated Auctions	Yudong Hu, Congying Han, Tiande Guo and Hao Xiao
Extended Ranking Mechanisms for the m-Capacitated Facility Location Problem in Bayesian Mechanism Design	Gennaro Auricchio, Jie Zhang and Mengxiao Zhang
Willy Wonka Mechanisms	Thomas Archbold, Bart de Keijzer and Carmine Ventre
Diffusion Auction Design with Transaction Costs	Bin Li, Dong Hao and Dengji Zhao

Title	Authors
Toward a Quality Model for Hybrid Intelligence Teams	Davide Dell'Anna, Pradeep K. Murukannaiah, Bernd Dudzik, Davide Grossi, Catholijn M. Jonker, Catharine Oertel and Pinar Yolum
Bootstrapping Linear Models for Fast Online Adaptation in Human-Agent Collaboration	Benjamin Newman, Chris Paxton, Kris Kitani and Henny Admoni
HELP! Providing Proactive Support in the Presence of Knowledge Asymmetry	Turgay Caglar and Sarath Sreedharan

Title	Authors
Team Performance and User Satisfaction in Mixed Human-Agent Teams	Sami Abuhaimed and Sandip Sen
Mixed-Initiative Human-Robot Teaming under Suboptimality with Online Bayesian Adaptation	Manisha Natarajan, Chunyue Xue, Sanne van Waveren, Karen Feigh and Matthew Gombolay
Human Goal Recognition as Bayesian Inference: Investigating the Impact of Actions, Timing, and Goal Solvability	Chenyuan Zhang, Charles Kemp and Nir Lipovetzky
Pragmatic Instruction Following and Goal Assistance via Cooperative Language-Guided Inverse Planning	Tan Zhi-Xuan, Lance Ying, Vikash Mansinghka and Joshua Tenenbaum

12:30-14:00 Lunch break + Posters + Demos
Room: Great Room 3&4 and Pre-Function Area

14:00-16:00 **Technical Session: RL6**
Room: Crystal Room 1 Poster Boards: 49A-61A

Title	Authors
Rethinking Out-of-Distribution Detection for Reinforcement Learning: Advancing Methods for Evaluation and Detection	Linas Nasvytis, Kai Sandbrink, Jakob Foerster, Tim Franzmeyer and Christian Schroeder de Witt
MESA: Cooperative Meta-Exploration in Multi-Agent Learning through Exploiting State-Action Space Structure	Zhicheng Zhang, Yancheng Liang, Yi Wu and Fei Fang
Normalization Enhances Generalization in Visual Reinforcement Learning	Lu Li, Jiafei Lyu, Guozheng Ma, Zilin Wang, Zhenjie Yang, Xiu Li and Zhiheng Li
Frugal Actor-Critic: Sample Efficient Off-Policy Deep Reinforcement Learning Using Unique Experiences	Nikhil Singh and Indranil Saha
Relaxed Exploration Constrained Reinforcement Learning	Shahaf Shperberg, Bo Liu and Peter Stone

Foresight Distribution Adjustment for Off-policy Reinforcement Learning	Ruifeng Chen, Xu-Hui Liu, Tian-Shuo Liu, Shengyi Jiang, Feng Xu and Yang Yu
Learning to Schedule Online Tasks with Bandit Feedback	Yongxin Xu, Shangshang Wang, Hengquan Guo, Xin Liu and Ziyu Shao

14:00-16:00	Technical Session: RL7 (+LEARN)
Room: Crystal Room 2	Poster Boards: 49A-61A

Title	Authors
On the Stability of Learning in Network Games with Many Players	Aamal Hussain, Dan Leonte, Francesco Belardinelli and Georgios Piliouras
Multi-Agent Diagnostics for Robustness via Illuminated Diversity	Mikayel Samvelyan, Davide Paglieri, Minqi Jiang, Jack Parker-Holder and Tim Rocktäschel
Minimax Exploiter: A Data Efficient Approach for Competitive Self-Play	Daniel Bairamian, Philippe Marcotte, Joshua Romoff, Gabriel Robert and Derek Nowrouzezahrai
Monitored Markov Decision Processes	Simone Parisi, Montaser Mohammedalamen, Alireza Kazemipour, Matthew Taylor and Michael Bowling
LgTS: Dynamic Task Sampling using LLM-generated sub-goals for Reinforcement Learning Agents	Yash Shukla, Wenchang Gao, Vasanth Sarathy, Alvaro Velasquez, Robert Wright and Jivko Sinapov
GraphSAID: Graph Sampling via Attention based Integer Programming Method	Ziqi Liu and Laurence Liu
PI-NeuGODE: Physics-Informed Graph Neural Ordinary Differential Equations for Spatiotemporal Trajectory Prediction	Zhaobin Mo, Yongjie Fu and Xuan Di

14:00-16:00	Technical Session: KR4
Room: Jade Room 1	Poster Boards: 67A – 73A

Title	Authors
Solving Two-player Games with QBF Solvers in General Game Playing	Yifan He, Abdallah Saffidine and Michael Thielscher
Probabilistic Multi-agent Only-Believing	Qihui Feng and Gerhard Lakemeyer

Title	Authors
Minimizing State Exploration While Searching Graphs with Unknown Obstacles	Daniel Koyfman, Shahaf Shperberg, Dor Atzmon and Ariel Felner
On Dealing with False Beliefs and Maintaining KD45_n Property	Tran Cao Son, Loc Pham and Enrico Pontelli
Dynamic Epistemic Logic of Resource Bounded Information Mining Agents	Vitaliy Dolgorukov, Rustam Galimullin and Maksim Gladyshev
Higher order reasoning under intent uncertainty reinforces the Hobbesian Trap	Otto Kuusela and Debraj Roy
Strategic reasoning under capacity-constrained agents	Gabriel Ballot, Vadim Malvone, Jean Leneutre and Youssef Laarouchi

14:00-16:00   **Technical Session: SC4**
Room: Jade Room 2   Poster Boards: 73B – 75B, 77B – 82B, 83A-87B, 88A, 88B

Title	Authors
The Parameterized Complexity of Welfare Guarantees in Schelling Segregation	Argyrios Deligkas, Eduard Eiben and Tiger-Lily Goldsmith
Veto core consistent preference aggregation	Aleksei Kondratev and Egor Ianovski
Stability of Weighted Majority Voting under Estimated Weights	Shaojie Bai, Dongxia Wang, Tim Muller, Peng Cheng and Jiming Chen
Approximating APS Under Submodular and XOS Valuations with Binary Marginals	Pooja Kulkarni, Rucha Kulkarni and Ruta Mehta
Approximating the Core via Iterative Coalition Sampling	Ian Gemp, Marc Lanctot, Luke Marris, Yiran Mao, Edgar Duéñez-Guzmán, Sarah Perrin, Andras Gyorgy, Romuald Elie, Georgios Piliouras, Michael Kaisers, Daniel Hennes, Kalesha Bullard, Kate Larson and Yoram Bachrach
Computational Aspects of Distortion	Soroush Ebadian, Aris Filos-Ratsikas, Mohamad Latifian and Nisarg Shah
Gerrymandering Planar Graphs	Jack Dippel, Max Dupre la Tour, April Niu, Sanjukta Roy and Adrian Vetta

14:00-16:00   **Technical Session: MA2**
Room: Jade Room 3   Poster Boards: 73B – 75B, 77B – 82B, 83A-87B, 88A, 88B

Title	Authors

Title	Authors
An Online Learning Theory of Brokerage	Natasa Bolic, Tommaso Cesari and Roberto Colomboni
Nash Stability in Hedonic Skill Games	Laurent Gourves and Gianpiero Monaco
Generalized Response Objectives for Strategy Exploration in Empirical Game-Theoretic Analysis	Yongzhao Wang and Michael Wellman
Symbolic Computation of Sequential Equilibria	Moritz Graf, Thorsten Engesser and Bernhard Nebel
The Stochastic Evolutionary Dynamics of Softmax Policy Gradient in Games	Chin-Wing Leung, Shuyue Hu and Ho-fung Leung
Battlefield transfers in coalitional Blotto games	Vade Shah and Jason Marden
Price of Anarchy of Traffic Assignment with Exponential Cost Functions	Jianglin Qiao, Dave de Jonge, Dongmo Zhang, Simeon Simoff, Carles Sierra and Bo Du

14:00-16:00	Technical Session: SIM1
Room: Gallery 1	Poster Boards: 65A-66B, 76A-77B

Title	Authors
Viral Marketing in Social Networks with Competing Products	Ahad N. Zehmakan, Xiaotian Zhou and Zhongzhi Zhang
TaxAI: A Dynamic Economic Simulator and Benchmark for Multi-Agent Reinforcement Learning	Qirui Mi, Siyu Xia, Yan Song, Haifeng Zhang, Shenghao Zhu and Jun Wang
From Market Saturation to Social Reinforcement: Understanding the Impact of Non-Linearity in Information Diffusion Models	Tobias Friedrich, Andreas Göbel, Nicolas Klodt, Martin S. Krejca and Marcus Pappik
Learning and calibrating heterogeneous bounded rational market behaviour with multi-agent reinforcement learning	Benjamin Patrick Evans and Sumitra Ganesh
Can poverty be reduced by acting on discrimination? An agent-based model for policy making	Alba Aguilera, Nieves Montes, Georgina Curto, Carles Sierra and Nardine Osman
Beliefs, Shocks, and the Emergence of Roles in Asset Markets: An Agent-Based Modeling Approach	Evan Albers, Mohammad Irfan and Matthew Bosch

| Modelling the Rise and Fall of Two-sided Markets | Farnoud Ghasemi and Rafał Kucharski |

16:00-16:30   **Coffee break + Demos**
Room: Great Room 3&4 and Pre-Function Area

18:30   **Banquet**
Room: Under the Dome, Auckland Museum   See page 34 for details

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Friday 10 May

8:30–9:00   **Registration Opens**
Location: Great Room

9:00-10:00   **Keynote: Ann Nowé**
Room: Great Room 1&2   Title: Trustworthy Reinforcement Learning: Opportunities and
Challenges

10:00-10:30   **Coffee break**
Room: Great Room 3&4 and Pre-Function Area

10:30-12:30   **Technical Session: RL8**
Room: Crystal Room 1   Poster Boards: 49A-62B

Title	Authors
Adaptive Evolutionary Reinforcement Learning Algorithm with Early Termination Strategy	Xiaoqiang Wu, Qingling Zhu, Qiuzhen Lin, Weineng Chen and Jianqiang Li
Automatic Curriculum for Unsupervised Reinforcement Learning	Yucheng Yang, Tianyi Zhou, Lei Han, Meng Fang and Mykola Pechenizkiy
Attacking Multi-Player Bandits and How to Robustify Them	Shivakumar Mahesh, Anshuka Rangi, Haifeng Xu and Long Tran-Thanh
Reinforcement Learning in the Wild with Maximum Likelihood-based Model Transfer	Hannes Eriksson, Tommy Tram, Debabrota Basu, Mina Alibeigi and Christos Dimitrakakis

Disentangling Policy from Offline Task Representation Learning via Adversarial Data Augmentation	Chengxing Jia, Fuxiang Zhang, Yi-Chen Li, Chenxiao Gao, Xu-Hui Liu, Lei Yuan, Zongzhang Zhang and Yang Yu
Sample and Communication Efficient Fully Decentralized MARL Policy Evaluation via a New Approach: Local TD update	Hairi, Zifan Zhang and Jia Liu
A Survey of Multi-Agent Deep Reinforcement Learning with Communication	Changxi Zhu, Mehdi Dastani and Shihan Wang

10:30-12:30 Room: Crystal Room 2	**Technical Session: RL9** Poster Boards: 49A-62B

Title	**Authors**
PDiT: Interleaving Perception and Decision-making Transformers for Deep Reinforcement Learning	Hangyu Mao, Rui Zhao, Ziyue Li, Zhiwei Xu, Hao Chen, Yiqun Chen, Bin Zhang, Zhen Xiao, Junge Zhang and Jiangjin Yin
When is Mean-Field Reinforcement Learning Tractable and Relevant?	Batuhan Yardim, Artur Goldman and Niao He
Policy Optimization using Horizon Regularized Advantage to Improve Generalization in Reinforcement Learning	Nasik Muhammad Nafi, Raja Farrukh Ali, William Hsu, Kevin Duong and Mason Vick
Decentralized Federated Policy Gradient with Byzantine Fault-Tolerance and Provably Fast Convergence	Philip Jordan, Florian Grötschla, Fan Flint Xiaofeng and Roger Wattenhofer
MAGNets: Micro-Architectured Group Neural Networks	Sumanta Dey, Briti Gangopadhyay, Pallb Dasgupta and Soumyajit Dey
Regret-based Defense in Adversarial Reinforcement Learning	Roman Belaire, Pradeep Varakantham, Thanh Nguyen and David Lo
Policy Learning for Off-Dynamics RL with Deficient Support	Linh Le Pham Van, Hung The Tran and Sunil Gupta

10:30-12:30 Room: Jade Room 1	**Technical Session: SC5** Poster Boards: 73B – 75B, 80A-82B, 83A-87B

Title	Authors
Value-based Resource Matching with Fairness Criteria: Application to Agricultural Water Trading	Abhijin Adiga, Yohai Trabelsi, Tanvir Ferdousi, Madhav Marathe, S. S. Ravi, Samarth Swarup, Anil Kumar Vullikanti, Mandy Wilson, Sarit Kraus, Reetwika Basu, Supriya Savalkar, Matthew Yourek, Michael Brady, Kirti Rajagopalan and Jonathan Yoder
Incentives for Early Arrival in Cooperative Games	Yaoxin Ge, Yao Zhang, Dengji Zhao, Zhihao Gavin Tang, Hu Fu and Pinyan Lu
Facility Location Games with Scaling Effects	Yu He, Alexander Lam and Minming Li
Bounding the Incentive Ratio of the Probabilistic Serial Rule	Bo Li, Ankang Sun and Shiji Xing
A Simple 1.5-approximation Algorithm for a Wide Range of Maximum Size Stable Matching Problems	Gergely Csáji
Tight Approximations for Graphical House Allocation	Hadi Hosseini, Andrew McGregor, Rik Sengupta, Rohit Vaish and Vignesh Viswanathan
Budget-feasible Egalitarian Allocation of Conflicting Jobs	Sushmita Gupta, Pallavi Jain, A Mohanapriya and Vikash Tripathi

10:30-12:30	Technical Session: MA3
Room: Jade Room 2	Poster Boards: 73B – 75B, 80A-82B, 83A-87B

Title	Authors
Finding Effective Ad Allocations: How to Exploit User History	Matteo Castiglioni, Alberto Latino, Alberto Marchesi, Giulia Romano, Nicola Gatti and Chokha Palayamkottai
Designing Redistribution Mechanisms for Reducing Transaction Fees in Blockchains	Sankarshan Damle, Manisha Padala and Sujit Gujar
Towards Efficient Auction Design with ROI Constraints	Xinyu Tang, Hongtao Lv, Yingjie Gao, Fan Wu, Lei Liu and Lizhen Cui
Cooperation and Coordination in Heterogeneous Populations with Interaction Diversity	Hao Guo, Zhen Wang, Junliang Xing, Pin Tao and Yuanchun Shi
Computing Optimal Commitments to Strategies and Outcome-Conditional Utility Transfers	Nathaniel Sauerberg and Caspar Oesterheld
Facility Location Games with Fractional preferences and Limited Resources	Jiazhu Fang and Wenjing Liu
On Green Sustainability of Resource Selection	Vittorio Bilo, Michele Flammini, Gianpiero Monaco,

Games with Equitable Cost-Sharing	Luca Moscardelli and Cosimo Vinci

10:30-12:30 **Technical Session: SIM2**
Room: Jade Room 3 Poster Boards: 67A – 73A

Title	Authors
Bayesian Behavioural Model Estimation for Live Crowd Simulation	Fumiyasu Makinoshima, Tetsuro Takahashi and Yusuke Oishi
Population synthesis as scenario generation for simulation-based planning under uncertainty	Joel Dyer, Arnau Quera-Bofarull, Nicholas Bishop, J. Doyne Farmer, Anisoara Calinescu and Michael Wooldridge
First 100 days of pandemic; an interplay of pharmaceutical, behavioral and digital interventions – A study using agent based modeling	Gauri Gupta, Ritvik Kapila, Ayush Chopra and Ramesh Raskar
Assessing fairness of residential dynamic pricing for electricity using active learning with agent-based simulation	Swapna Thorve, Henning Mortveit, Anil Kumar Vullikanti, Madhav Marathe and Samarth Swarup
Network Agency: An Agent-based Model of Forced Migration from Ukraine	Zakaria Mehrab, Logan Stundal, Samarth Swarup, Srinivasan Venaktramanan, Bryan Lewis, Henning S. Mortveit, Christopher L. Barrett, Abhishek Pandey, Chad R. Wells, Alison P. Galvani, Burton H. Singer, David A. Leblang, Rita R. Colwell and Madhav Marathe
Private Agent-based Modeling	Ayush Chopra, Arnau Quera-Bofarull, Nurullah Giray Kuru, Michael Wooldridge and Ramesh Raskar
flame: a Framework for Learning in Agent-based Models	Ayush Chopra, Jayakumar Subramanian, Balaji Krishnamurthy and Ramesh Raskar

10:30-12:30 **Technical Session: ROBOT**
Room: Gallery 1 Poster Boards: 63B – 66B

Title	Authors
Linking Vision and Multi-Agent Communication through Visible Light Communication using Event Cameras	Haruyuki Nakagawa, Yoshitaka Miyatani and Asako Kanezaki
High-Level, Collaborative Task Planning Grammar and Execution for Heterogeneous Agents	Amy Fang and Hadas Kress-Gazit
Multi-Robot Motion and Task Planning in Automotive Production Using Controller-based Safe Reinforcement Learning	Eric Roslin Wete Poaka, Joel Greenyer, Daniel Kudenko and Wolfgang Nejdl

Collective robustness of heterogeneous decision-makers against stubborn individuals	Nemanja Antonic, Raina Zakir, Marco Dorigo and Andreagiovanni Reina
BrainSLAM: SLAM on Neural Population Activity Data	Kipp Freud, Nathan Lepora, Matt Jones and Cian O'Donnell
A Distributed Approach for Fault Detection in Swarms of Robots	Alessandro Carminati, Davide Azzalini, Simone Vantini and Francesco Amigoni
Preventing Deadlocks for Multi-Agent Pickup and Delivery in Dynamic Environments	Benedetta Flammini, Davide Azzalini and Francesco Amigoni

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12:30-14:00 **Lunch break + Posters**
Room: Great Room 3&4 and Pre-Function Area

14:00-16:00 Room: Crystal Room 1	**Technical Session: RL10** Poster Boards: 49A-62B
Title	**Authors**
Aligning Credit for Multi-Agent Cooperation via Model-based Counterfactual Imagination	Jiajun Chai, Yuqian Fu, Dongbin Zhao and Yuanheng Zhu
Reinforcement Learning with Ensemble Model Predictive Safety Certification	Sven Gronauer, Tom Haider, Felippe Schmoeller da Roza and Klaus Diepold
Safe Model-Based Multi-Agent Mean-Field Reinforcement Learning	Matej Jusup, Barna Pásztor, Tadeusz Janik, Kenan Zhang, Francesco Corman, Andreas Krause and Ilija Bogunovic
Risk-Aware Constrained Reinforcement Learning with Non-Stationary Policies	Zhaoxing Yang, Haiming Jin, Yao Tang and Guiyun Fan
Adaptive Primal-Dual Method for Safe Reinforcement Learning	Weiqin Chen, James Onyejizu, Long Vu, Lan Hoang, Dharmashankar Subramanian, Koushik Kar, Sandipan Mishra and Santiago Paternain
Cost-aware Offline Safe Meta Reinforcement Learning with Robust In-Distribution Online Task Adaptation	Cong Guan, Ruiqi Xue, Ziqian Zhang, Lihe Li, Yichen Li, Lei Yuan and Yang Yu
Boosting Continuous Control with Consistency Policy	Yuhui Chen, Haoran Li and Dongbin Zhao

14:00-16:00 Room: Crystal Room 2	**Technical Session: LEARN2** Poster Boards: 49A-62B
Title	**Authors**

Title	Authors
Memory-Based Resilient Control Against Non-cooperation in Multi-agent Flocking	Mingyue Zhang, Nianyu Li, Jialong Li, Jiachun Liao and Jiamou Liu
Emergent Cooperation under Uncertain Incentive Alignment	Nicole Orzan, Erman Acar, Davide Grossi and Roxana Rădulescu
Uncoupled Learning of Differential Stackelberg Equilibria with Commitments	Robert Loftin, Mustafa Mert Çelikok, Herke van Hoof, Samuel Kaski and Frans Oliehoek
Multi-Robot Allocation of Assistance from a Shared Uncertain Operator	Clarissa Costen, Anna Gautier, Nick Hawes and Bruno Lacerda
NovelGym: A Flexible Ecosystem for Hybrid Planning and Learning Agents Designed for Open Worlds	Shivam Goel, Yichen Wei, Panagiotis Lymperopoulos, Klára Churá, Matthias Scheutz and Jivko Sinapov
New Algorithms for Distributed Fair k-Center Clustering: Almost Accurate as Sequential Algorithms	Xiaoliang Wu, Qilong Feng, Ziyun Huang, Jinhui Xu and Jianxin Wang
Online Markov Decision Processes with Non-oblivious Strategic Adversary	Le Cong Dinh, David Henry Mguni, Long Tran-Thanh, Jun Wang and Yaodong Yang

14:00-16:00	Technical Session: SC6
Room: Jade Room 1	Poster Boards: 73B – 75B, 80A-82B, 83A-87B

Title	Authors
Evaluating District-based Election Surveys with Synthetic Dirichlet Likelihood	Adway Mitra and Palash Dey
Capacity Modification in the Stable Matching Problem	Salil Gokhale, Samarth Singla, Shivika Narang and Rohit Vaish
Robust Popular Matchings	Martin Bullinger, Rohith Reddy Gangam and Parnian Shahkar
Proportional Fairness in Obnoxious Facility Location	Alexander Lam, Haris Aziz, Bo Li, Fahimeh Ramezani and Toby Walsh
Positive Intra-Group Externalities in Facility Location	Ying Wang, Houyu Zhou and Minming Li
Impact of Tie-Breaking on the Manipulability of Elections	James Bailey and Craig Tovey
Single-Winner Voting with Alliances: Avoiding the Spoiler Effect	Grzegorz Pierczyński and Stanisław Szufa

14:00-16:00 Room: Jade Room 2	Technical Session: SIM3 Poster Boards: 67A – 73A

Title	Authors
Solution-oriented Agent-based Models Generation with Verifier-assisted Iterative In-context Learning	Tong Niu, Weihao Zhang and Rong Zhao
Algorithmic Filtering, Out-Group Stereotype, and Polarization on Social Media	Jean Springsteen, William Yeoh and Dino Christenson
Maximising the Influence of Temporary Participants in Opinion Formation	Zhiqiang Zhuang, Kewen Wang, Zhe Wang, Junhu Wang and Yinong Yang
Majority-based Preference Diffusion on Social Networks	Ahad N. Zehmakan
Learning Partner Selection Rules that Sustain Cooperation in Social Dilemmas with the Option of Opting Out	Chin-Wing Leung and Paolo Turrini
The Triangles of Dishonesty: Modelling the Evolution of Lies, Bullshit, and Deception in Agent Societies	Stefan Sarkadi and Peter Lewis

14:00-16:00 Room: Jade Room 3	Technical Session: APP+ROB+PLAN Poster Boards: 76A – 78B

Title	Authors
Efficient Public Health Intervention Planning Using Decomposition-Based Decision-focused Learning	Sanket Shah, Arun Suggala, Milind Tambe and Aparna Taneja
Robust Knowledge Extraction from Large Language Models using Social Choice Theory	Nico Potyka, Yuqicheng Zhu, Yunjie He, Evgeny Kharlamov and Steffen Staab
Improving Mobile Maternal and Child Health Care Programs: Collaborative Bandits for Time Slot Selection	Soumyabrata Pal, Milind Tambe, Arun Suggala, Karthikeyan Shanmugam and Aparna Taneja
Containing the spread of a contagion on a tree	Michela Meister and Jon Kleinberg
RGSâŠ•: RDF graph synchronization for collaborative robotics	Cyrille Berger, Patrick Doherty, Piotr Rudol and Mariusz Wzorek
Attention-based Priority Learning for Limited Time Multi-Agent Path Finding	Yibin Yang, Mingfeng Fan, Chengyang He, Jianqiang Wang, Heye Huang and Guillaume

Sartoretti

Engineering LaCAM*: Towards Real-Time,
Large-Scale, and Near-Optimal Multi-Agent   Keisuke Okumura
Pathfinding

14:00-16:00	Technical Session: Blue Sky 2
Room: Gallery 4	

Title	Authors
Towards Sustainable Human-Agent Teams: A Framework for Understanding Human-Agent Team Dynamics	Rui Prada, Astrid Homan and Gerben van Kleef
Adaptive Incentive Engineering in Citizen-Centric AI	Behrad Koohy, Jan Buermann, Vahid Yazdanpanah, Pamela Briggs, Paul Pschierer-Barnfather, Enrico Gerding and Sebastian Stein
Selecting Representative Bodies: An Axiomatic View	Manon Revel, Niclas Boehmer, Rachael Colley, Markus Brill, Piotr Faliszewski and Edith Elkind
The "Cognitive Hourglass": Agent Abstractions in the Large Models Era	Alessandro Ricci, Stefano Mariani, Franco Zambonelli, Samuele Burattini and Cristiano Castelfranchi
Explainable Agents (XAg) by Design	Sebastian Rodriguez and John Thangarajah
Multi-deal Negotiation	Tim Baarslag
Going Beyond Mono-Mission Earth Observation: Using the Multi-Agent Paradigm to Federate Multiple Missions	Jean-Loup Farges, Filipo Perotto, Gauthier Picard, CŽdric Pralet, Cyrille De Lucy, Jonathan Guerra, Philippe Pavero and Fabrice Planchou

16:00-16:30	Coffee break
	Room: Great Room 3&4 and Pre-Function Area

16:30-17:30	Community meeting + Closing
	Room: Great Room 1&2

Extended Abstracts

See the map of poster boards on page .

Poster Schedule

ID	Title	Author(s)	Day	Board
3	Pure Nash Equilibria in Weighted Congestion Games with Complementarities and Beyond	Kenjiro Takazawa	08-May	21A
8	Continual Depth-limited Responses for Computing Counter-strategies in Sequential Games	David Milec, Ondřej Kubíček and Viliam Lisy	08-May	10B
12	MATLight: Traffic Signal Coordinated Control Algorithm Based on Heterogeneous-Agent Mirror Learning With Transformer	Haipeng Zhang, Zhiwen Wang and Na Li	08-May	13a
13	Liquid Democracy for Low-Cost Ensemble Pruning	Ben Armstrong and Kate Larson	08-May	22A
14	Gaze Supervision for Mitigating Causal Confusion in Driving Agents	Abhijat Biswas, Badal Arun Pardhi, Caleb Chuck, Jarrett Holtz, Scott Niekum, Henny Admoni and Alessandro Allievi	08-May	1A
21	Emergent Dominance Hierarchies in Reinforcement Learning Agents	Ram Rachum, Yonatan Nakar, Bill Tomlinson, Nitay Alon and Reuth Mirsky	08-May	14A
32	Multi-level aggregation with delays and stochastic arrivals	Mathieu Mari, Michał Pawłowski, Runtian Ren and Piotr Sankowski	08-May	27A
41	Leveraging Approximate Model-based Shielding for Probabilistic Safety Guarantees in Continuous Environments	Alexander W. Goodall and Francesco Belardinelli	08-May	43B
50	Strategic Routing and Scheduling for Evacuations	Kazi Ashik Islam, Da Qi Chen, Madhav Marathe, Henning Mortveit, Samarth Swarup and Anil Vullikanti	08-May	11B

67	Shield Decentralization for Safe Reinforcement Learning in General Partially Observable Multi-Agent Environments	Daniel Melcer, Christopher Amato and Stavros Tripakis	08-May	28A
77	Clique Analysis and Bypassing in Continuous-Time Conflict-Based Search	Thayne T. Walker, Nathan Sturtevant and Ariel Felner	08-May	29A
85	Towards Understanding How to Reduce Generalization Gap in Visual Reinforcement Learning	Jiafei Lyu, Le Wan, Xiu Li and Zongqing Lu	08-May	37A
94	Attila: a Negotiating Agent for the Game of Diplomacy, Based on Purely Symbolic A.I.	Dave de Jonge and Laura Rodriguez Cima	08-May	12B
107	From Explicit Communication to Tacit Cooperation: A Novel Paradigm for Cooperative MARL	Dapeng Li, Zhiwei Xu, Bin Zhang, Guangchong Zhou, Zeren Zhang and Guoliang Fan	08-May	38A
108	Evaluation of Robustness of Off-Road Autonomous Driving Segmentation against Adversarial Attacks: A Dataset-Centric Study	Pankaj Deoli, Rohit Kumar, Axel Vierling and Karsten Berns	09-May	4B
113	Simulated Robotic Soft Body Manipulation	Glareh Mir and Michael Beetz	08-May	28B
114	MA-MIX: Value Function Decomposition for Cooperative Multiagent Reinforcement Learning Based on Multi-Head Attention Mechanism	Yu Niu, Hengxu Zhao and Lei Yu	08-May	39A
115	A Comparison of the Myerson Value and the Position Value	Ayşe Mutlu Derya	08-May	23A
117	A Negotiator's Backup Plan: Optimal Concessions with a Reservation Value	Tamara C.P. Florijn, Pinar Yolum and Tim Baarslag	08-May	13B
140	Decentralised Emergence of Robust and Adaptive Linguistic Conventions in Populations of Autonomous Agents Grounded in Continuous Worlds	Jérôme Botoko Ekila, Jens Nevens, Lara Verheyen, Katrien Beuls and Paul Van Eecke	08-May	27B
142	Benchmarking MARL on Long Horizon Sequential Multi-Objective Tasks	Minghong Geng, Shubham Pateria, Budhitama Subagdja and Ah-Hwee Tan	09-May	1B

143	Fair Scheduling of Indivisible Chores	Yatharth Kumar, Sarfaraz Equbal, Rohit Gurjar, Swaprava Nath and Rohit Vaish	08-May	24A
152	TIMAT: Temporal Information Multi-Agent Transformer	Qitong Kang, Fuyong Wang, Zhongxin Liu and Zengqiang Chen	08-May	40B
154	Momentum-based Algorithm on Deep Reinforcement Learning	Huihui Zhang	08-May	39B
158	Contiguous Allocation of Binary Valued Indivisible Items on a Path	Yasushi Kawase, Bodhayan Roy and Mohammad Azharuddin Sanpui	08-May	14B
166	Decentralized Control of Distributed Manipulators: An Information Diffusion Approach	Nicolas Bessone, Payam Zahadat and Kasper Stoy	09-May	3B
175	Charging Electric Vehicles Fairly and Efficiently	Ramsundar Anandanarayanan, Swaprava Nath and Rohit Vaish	08-May	24B
180	Auto-Encoding Adversarial Imitation Learning	Kaifeng Zhang, Rui Zhao, Ziming Zhang and Yang Gao	08-May	38B
190	Ethical Markov Decision Processes with Moral Worth as Rewards	Mihail Stojanovski, Nadjet Bourdache, Grégory Bonnet and Mouaddib Abdel-Illah	08-May	30A
197	Game Transformations That Preserve Nash Equilibria or Best Response Sets	Emanuel Tewolde and Vincent Conitzer	08-May	15B
213	Mastering Robot Control through Point-based Reinforcement Learning with Pre-training	Yihong Chen, Cong Wang, Tianpei Yang, Meng Wang, Yingfeng Chen, Jifei Zhou, Chaoyi Zhao, Xinfeng Zhang, Zeng Zhao, Changjie Fan, Zhipeng Hu, Rong Xiong and Long Zeng	08-May	37B
215	On the Utility of External Agent Intention Predictor for Human-AI Coordination	Chenxu Wang, Zilong Chen and Huaping Liu	08-May	2A

219	A SAT-based Approach for Argumentation Dynamics	Jean Marie Lagniez, Emmanuel Lonca and Jean-Guy Mailly	08-May	31A
221	Optimal Diffusion Auctions	Yao Zhang, Shanshan Zheng and Dengji Zhao	08-May	17A
222	Attention Graph for Multi-Robot Social Navigation with Deep Reinforcement Learning	Erwan Escudie, Laetitia Matignon and Jacques Saraydaryan	09-May	2B
225	DCT: Dual Channel Training of Action Embeddings for Reinforcement Learning with Large Discrete Action Spaces	Pranavi Pathakota, Hardik Meisheri and Harshad Khadilkar	08-May	36B
226	Decision Market Based Learning For Multi-agent Contextual Bandit Problems	Wenlong Wang and Thomas Pfeiffer	08-May	35B
235	ENOTO: Improving Offline-to-Online Reinforcement Learning with Q-Ensembles	Kai Zhao, Jianye Hao, Yi Ma, Jinyi Liu, Yan Zheng and Zhaopeng Meng	08-May	34B
238	Computational Theory of Mind with Abstractions for Effective Human-Agent Collaboration	Emre Erdogan, Rineke Verbrugge and Pinar Yolum	08-May	3A
239	Centralized Training with Hybrid Execution in Multi-Agent Reinforcement Learning	Pedro P. Santos, Diogo Carvalho, Miguel Vasco, Alberto Sardinha, Pedro A. Santos, Ana Paiva and Francisco Melo	08-May	41A
241	Computing Balanced Solutions for Large International Kidney Exchange Schemes When Cycle Length Is Unbounded	Márton Benedek, Péter Biró, Gergely Csáji, Matthew Johnson, Daniël Paulusma and Xin Ye	08-May	23B
249	Projection-Optimal Monotonic Value Function Factorization in Multi-Agent Reinforcement Learning	Yongsheng Mei, Hanhan Zhou and Tian Lan	08-May	42A
255	Joint Intrinsic Motivation for Coordinated Exploration in Multi-Agent Deep Reinforcement Learning	Maxime Toquebiau, Nicolas Bredeche, Faïz Ben Amar and Jae-Yun Jun	08-May	43A
256	Decentralized Safe Control for Multi-Robot Navigation in Dynamic Environments with Limited Sensing	Saad Khan, Mayank Baranwal and Srikant Sukumar	09-May	10A

257	Synthesizing social laws with ATL conditions	Rustam Galimullin and Louwe B. Kuijer	08-May	32A
261	Deep Learning for Two-Sided Matching Markets	Sai Srivatsa Ravindranath, Zhe Feng, Shira Li, Jonathan Ma, Scott Kominers and David Parkes	08-May	22B
262	Combinatorial Client-Master Multiagent Deep Reinforcement Learning for Task Offloading in Mobile Edge Computing	Tesfay Zemuy Gebrekidan, Sebastian Stein and Timothy Norman	08-May	44A
268	Enhancing Search and Rescue Capabilities in Hazardous Communication-Denied Environments through Path-Based Sensors with Backtracking	Alexander Mendelsohn, Donald Sofge and Michael Otte	08-May	32B
272	Entropy Seeking Constrained Multiagent Reinforcement Learning	Ayhan Alp Aydeniz, Enrico Marchesini, Christopher Amato and Kagan Tumer	08-May	45A
283	Indirect Credit Assignment in a Multiagent System"	Everardo Gonzalez, Siddarth Viswanathan and Kagan Tumer	08-May	26B
290	Influence-Focused Asymmetric Island Model	Andrew Festa, Gaurav Dixit and Kagan Tumer	08-May	33Q
298	PADDLE: Logic Program Guided Policy Reuse in Deep Reinforcement Learning	Hao Zhang, Tianpei Yang, Yan Zheng, Jianye Hao and Matthew E. Taylor	08-May	46A
301	NP^PP-Completeness of Control by Adding Players to Change the Penrose–Banzhaf Power Index in Weighted Voting Games	Joanna Kaczmarek and Jörg Rothe	08-May	21B
305	Fairness of Exposure in Online Restless Multi-armed Bandits	Archit Sood, Shweta Jain and Sujit Gujar	08-May	47A
307	Analyzing Crowdfunding of Public Projects Under Dynamic Beliefs	Sankarshan Damle and Sujit Gujar	08-May	18A
312	No Transaction Fees? No Problem! Achieving Fairness in Transaction Fee Mechanism Design	Sankarshan Damle, Varul Srivastava and Sujit Gujar	08-May	19A
317	Decent-BRM: Decentralization through Block Reward Mechanisms	Varul Srivastava and Sujit Gujar	08-May	20A

321	Fairness and Privacy Guarantees in Federated Contextual Bandits	Sambhav Solanki, Sujit Gujar and Shweta Jain	08-May	48A
323	Cognizing and Imitating Robotic Skills via a Dual Cognition-Action Architecture	Zixuan Chen, Ze Ji, Shuyang Liu, Jing Huo, Yiyu Chen and Yang Gao	09-May	11A
335	GOV-REK: Governed Reward Engineering Kernels for Designing Robust Multi-Agent Reinforcement Learning Systems	Ashish Rana, Michael Oesterle and Jannik Brinkmann	08-May	48B
337	Toward Socially Friendly Autonomous Driving Using Multi-agent Deep Reinforcement Learning	Jhih-Ching Yeh and Von-Wun Soo	08-May	4b
343	Persuasion by Shaping Beliefs about Multidimensional Features of a Thing	Kazunori Terada, Yasuo Noma and Masanori Hattori	08-May	4A
348	Competitive Analysis of Online Facility Open Problem	Binghan Wu, Wei Bao and Bing Zhou	08-May	31B
351	Guided Exploration in Reinforcement Learning via Monte Carlo Critic Optimization	Igor Kuznetsov	08-May	47B
355	JDRec: Practical Actor-Critic Framework for Online Combinatorial Recommender System	Xin Zhao, Jiaxin Li, Zhiwei Fang, Yuchen Guo, Jinyuan Zhao, Jie He, Wenlong Chen, Changping Peng and Guiguang Ding	08-May	46B
356	Reinforcement Nash Equilibrium Solver	Xinrun Wang, Chang Yang, Shuxin Li, Pengdeng Li, Xiao Huang, Hau Chan and Bo An	09-May	32A
357	Solving Offline 3D Bin Packing Problem with Large-sized Bin via Two-stage Deep Reinforcement Learning	Hao Yin, Fan Chen and Hongjie He	08-May	45B
362	Detecting Anomalous Agent Decision Sequences Based on Offline Imitation Learning	Chen Wang, Sarah Erfani, Tansu Alpcan and Christopher Leckie	08-May	44B
366	Explaining Sequences of Actions in Multi-agent Deep Reinforcement Learning Models	Khaing Phyo Wai, Minghong Geng, Shubham Pateria, Budhitama Subagdja and Ah-Hwee Tan	08-May	5A

372	Balanced and Incentivized Learning with Limited Shared Information in Multi-agent Multi-armed Bandit	Junning Shao, Siwei Wang and Zhixuan Fang	09-May	48B
417	Facility location games with task allocation	Zifan Gong, Minming Li and Houyu Zhou	09-May	24B
418	Sequential principal-agent problems with communication: efficient computation and learning	Jiarui Gan, Rupak Majumdar, Debmalya Mandal and Goran Radanovic	09-May	23B
428	Source Detection in Networks using the Stationary Distribution of a Markov Chain	Yael Sabato, Amos Azaria and Noam Hazon	08-May	5b
433	Near-Optimal Online Resource Allocation in the Random-Order Model	Saar Cohen and Noa Agmon	08-May	20B
447	Neurological Based Timing Mechanism for Reinforcement Learning	Michael Tarlton, Gustavo Mello and Anis Yazidi	09-May	47B
462	Inferring Lewisian common knowledge using theory of mind reasoning in a forward-chaining rule engine	Stephen Cranefield, Sriashalya Srivathsan and Jeremy Pitt	08-May	30B
463	Incentive-based MARL Approach for Commons Dilemmas in Property-based Environments	Lukasz Pelcner, Matheus Do Carmo Alves, Leandro Soriano Marcolino, Paula Harrison and Peter Atkinson	08-May	6b
474	Minimizing Negative Side Effects in Cooperative Multi-Agent Systems using Distributed Coordination	Moumita Choudhury, Sandhya Saisubramanian, Hao Zhang and Shlomo Zilberstein	08-May	29B
478	Optimal Task Assignment and Path Planning using Conflict-Based Search with Precedence and Temporal Constraints	Yu Quan Chong, Jiaoyang Li and Katia Sycara	09-May	31A
479	Population-aware Online Mirror Descent for Mean-Field Games by Deep Reinforcement Learning	Zida Wu, Mathieu Lauriere, Samuel Jia Cong Chua, Matthieu Geist, Olivier Pietquin and Ankur Mehta	09-May	48A
480	Dual-Policy-Guided Offline Reinforcement Learning with Optimal Stopping	Weibo Jiang, Shaohui Li, Zhi Li, Yuxin Ke, Zhizhuo Jiang, Yaowen Li and Yu Liu	09-May	47A

492	Adaptive Discounting of Training Time Attacks	Ridhima Bector, Abhay Aradhya, Chai Quek and Zinovi Rabinovich	09-May	46A
497	vMFER: von Mises-Fisher Experience Resampling Based on Uncertainty of Gradient Directions for Policy Improvement of Actor-Critic Algorithms	Yiwen Zhu, Jinyi Liu, Wenya Wei, Qianyi Fu, Yujing Hu, Zhou Fang, Bo An, Jianye Hao, Tangjie Lv and Changjie Fan	09-May	45A
510	OPEx: A Large Language Model-Powered Framework for Embodied Instruction Following	Haochen Shi, Zhiyuan Sun, Xingdi Yuan, Marc-Alexandre Côté and Bang Liu	09-May	30A
528	ELA: Exploited Level Augmentation for Offline Learning in Zero-Sum Games	Shiqi Lei, Kanghoon Lee, Linjing Li, Jinkyoo Park and Jiachen Li	09-May	44A
543	HiMAP: Learning Heuristics-Informed Policies for Large-Scale Multi-Agent Pathfinding	Huijie Tang, Federico Berto, Zihan Ma, Chuanbo Hua, Kyuree Ahn and Jinkyoo Park	08-May	34A
548	Large Language Model Assissted Multi-Agent Dialogue for Ontology Alignment	Shiyao Zhang, Yuji Dong, Yichuan Zhang, Terry Payne and Jie Zhang	09-May	29A
552	Abstracting Assumptions in Structured Argumentation	Iosif Apostolakis, Zeynep G. Saribatur and Johannes P. Wallner	09-May	28A
554	Decentralized Competing Bandits in Many-to-One Matching Markets	Yirui Zhang and Zhixuan Fang	09-May	43A
555	Using Cooperative Game Theory to Prune Neural Networks	Mauricio Diaz-Ortiz Jr, Benjamin Kempinski, Daphne Cornelisse, Yoram Bachrach and Tal Kachman	08-May	19B
559	Bayesian Ensembles for Exploration in Deep Q-Learning	Pascal van der Vaart, Neil Yorke-Smith and Matthijs Spaan	09-May	42A
561	Understanding the impact of promotions on consumer behavior	Jarod Vanderlynden, Philippe Mathieu and Romain Warlop	08-May	7b

563	Electric Vehicle Routing for Emergency Power Supply with Deep Reinforcement Learning	Daisuke Kikuta, Hiroki Ikeuchi, Kengo Tajiri, Yuta Toyama, Masaki Nakamura and Yuusuke Nakano	09-May	1A
567	Metric Distortion Under Public-Spirited Voting	Amirreza Bagheridelouee, Marzie Nilipour, Masoud Seddighin and Maziar Shamsipour	08-May	18B
569	Factored MDP based Moving Target Defense with Dynamic Threat Modeling	Megha Bose, Praveen Paruchuri and Akshat Kumar	08-May	35A
573	Dual Role AoI-based Incentive Mechanism for HD map Crowdsourcing	Wentao Ye, Bo Liu, Yuan Luo and Jianwei Huang	08-May	17B
574	Fairness in Repeated House Allocation	Karl Jochen Micheel and Anaëlle Wilczynski	08-May	25A
579	Bootstrapped Policy Learning: Goal Shaping for Efficient Task-oriented Dialogue Policy Learning	Yangyang Zhao, Mehdi Dastani and Shihan Wang	09-May	41A
583	Unifying Regret and State-Action Space Coverage for Effective Unsupervised Environment Design	Jayden Teoh, Wenjun Li and Pradeep Varakantham	09-May	40B
593	Cournot Queueing Games with Applications to Mobility Systems	Matthew Sheldon, Dario Paccagnan and Giuliano Casale	09-May	22B
595	Verifying Proportionality in Temporal Multiwinner Voting	Edith Elkind, Svetlana Obraztsova and Nicholas Teh	08-May	26A
599	Combining Sentiment Analysis and Non-Bayesian Updating for Cooperative Decision-Making	Daniele Orner, Elizabeth Ondula, Nick Mumero and Richa Goyal	09-May	6A
616	Opinion Diffusion on Society Graphs Based on Approval Ballots	Jayakrishnan Madathil, Neeldhara Misra and Yash More	09-May	18B
621	On the Complexity of Candidates-Embedded Multiwinner Voting under the Hausdorff Function	Yongjie Yang	09-May	19B
630	HLG: Bridging Human Heuristic Knowledge and Deep Reinforcement Learning for Optimal Agent Performance	Bin Chen and Zehong Cao	09-May	39B

637	Reducing Systemic Risk in Financial Networks through Donations	Jinyun Tong, Bart De Keijzer and Carmine Ventre	08-May	9a
658	Strategic Cost Selection in Participatory Budgeting	Piotr Faliszewski, Łukasz Janeczko, Andrzej Kaczmarczyk, Grzegorz Lisowski, Piotr Skowron and Stanisław Szufa	09-May	20B
659	A Reinforcement Learning Framework For Studying Group And Individual Fairness	Alexandra Cimpean, Catholijn Jonker, Pieter Libin and Ann Nowé	09-May	38B
672	Unlocking the Potential of Machine Ethics with Explainability	Timo Speith	08-May	15A
677	BAR Nash Equilibrium and Application to Blockchain Design	Maxime Reynouard, Olga Gorelkina and Rida Laraki	09-May	21B
696	Addressing Permutation Challenges in Multi-Agent Reinforcement Learning	Somnath Hazra, Pallab Dasgupta and Soumyajit Dey	09-May	37B
702	Towards Zero Shot Learning in Restless Multi-armed Bandits	Yunfan Zhao, Nikhil Behari, Edward Hughes, Edwin Zhang, Dheeraj Nagaraj, Karl Tuyls, Aparna Taneja and Milind Tambe	09-May	36B
708	Computing Nash Equilibria in Multidimensional Congestion Games	Mohammad Irfan, Hau Chan and Jared Soundy	09-May	20B
709	Ontological modeling and reasoning for comparison and contrastive narration of robot plans	Alberto Olivares-Alarcos, Sergi Foix, Júlia Borràs, Gerard Canal and Guillem Alenyà	09-May	12A
712	Time-Constrained Restless Multi-Armed Bandits with Applications to City Service Scheduling	Yi Mao and Andrew Perrault	09-May	35B
719	Fuzzy Clustered Federated Learning Under Mixed Data Distributions	Peng Tang, Lifan Wang, Weidong Qiu, Zheng Huang and Qiangmin Wang	08-May	36A
720	Distribution of Chores with Information Asymmetry	Hadi Hosseini, Joshua Kavner, Tomasz Wąs and Lirong Xia	09-May	21B

724	ANOTO: Improving Automated Negotiation via Offline-to-Online Reinforcement Learning	Siqi Chen, Jianing Zhao, Kai Zhao, Gerhard Weiss, Fengyun Zhang, Ran Su, Yang Dong, Daqian Li and Kaiyou Lei	09-May	19B
725	The Selfishness Level of Social Dilemmas	Stefan Roesch, Stefanos Leonardos and Yali Du	09-May	18B
727	Consensus of Nonlinear Multi-Agent Systems with Semi-Markov Switching Under DoS Attacks	Sheng Tian, Hong Shen, Yuan Tian and Hui Tian	09-May	27A
729	Embracing Relational Reasoning in Multi-Agent Actor-Critic	Sharlin Utke, Jeremie Houssineau and Giovanni Montana	09-May	34B
738	Deep Learning for Population-Dependent Controls in Mean Field Control Problems with Common Noise	Gokce Dayanikli, Mathieu Lauriere and Jiacheng Zhang	09-May	46B
744	Psychophysiological Models of Cognitive States Can Be Operator-Agnostic	Erin Richardson, Savannah Buchner, Jacob Kintz, Torin Clark and Allison Anderson	08-May	6A
749	Mutual Information as Intrinsic Reward of Reinforcement Learning Agents for On-demand Ride Pooling	Xianjie Zhang, Jiahao Sun, Chen Gong, Kai Wang, Yifei Cao, Hao Chen and Yu Liu	09-May	2A
757	Which Games are Unaffected by Absolute Commitments?	Daji Landis and Nikolaj Ignatieff Schwartzbach	09-May	17B
766	MiKe: Task Scheduling for UAV-based Parcel Delivery	Viviana Arrigoni, Giulio Attenni, Novella Bartolini, Matteo Finelli and Gaia Maselli	09-May	3A
768	JaxMARL: Multi-Agent RL Environments in JAX	Alexander Rutherford, Benjamin Ellis, Matteo Gallici, Jonathan Cook, Andrei Lupu, Garðar Ingvarsson, Timon Willi, Akbir Khan, Christian Schroeder de Witt, Alexandra Souly, Saptarashmi Bandyopadhyay, Mikayel Samvelyan, Minqi Jiang, Robert Lange, Shimon Whiteson, Bruno Lacerda,	09-May	7A

		Nick Hawes, Tim Rocktäschel, Chris Lu and Jakob Foerster		
769	Fairness and Cooperation between Independent Reinforcement Learners through Indirect Reciprocity	Jacobus Smit and Fernando Santos	09-May	33B
773	Approximately Fair Allocation of Indivisible Items with Random Valuations	Alessandro Aloisio, Vittorio Bilo, Antonio Mario Caruso, Michele Flammini and Cosimo Vinci	09-May	22B
775	Actual Trust in Multiagent Systems	Michael Akintunde, Vahid Yazdanpanah, Asieh Salehi Fathabadi, Corina Cirstea, Mehdi Dastani and Luc Moreau	09-May	26A
776	On General Epistemic Abstract Argumentation Frameworks	Gianvincenzo Alfano, Sergio Greco, Francesco Parisi and Irina Trubitsyna	09-May	25A
790	Fully Independent Communication in Multi-Agent Reinforcement Learning	Rafael Pina, Varuna De Silva, Corentin Artaud and Xiaolan Liu	09-May	40A
796	GLIDE-RL: Grounded Language Instruction through DEmonstration in RL	Chaitanya Kharyal, Sai Krishna Gottipati, Tanmay Sinha, Srijita Das and Matthew E. Taylor	09-May	39A
805	Towards Socially-Acceptable Multi-Criteria Resolution of the 4D-Contracts Repair Problem	Youssef Hamadi and Gauthier Picard	09-May	4A
810	Potential Games on Cubic Splines for Multi-Agent Motion Planning of Autonomous Agents	Sam Williams and Jyotirmoy Deshmukh	09-May	26B
814	Deceptive Path Planning via Reinforcement Learning with Graph Neural Networks	Michael Y Fatemi, Wesley A Suttle and Brian M Sadler	09-May	38A
818	Cutsets and EF1 Fair Division of Graphs	Jiehua Chen and William Zwicker	09-May	23B
824	Mechanism Design for Reducing Agent Distances to Prelocated Facilities	Hau Chan, Xinliang Fu, Minming Li and Chenhao Wang	09-May	17A

840	Taking Agent-Based Social Simulation to the Next Level Using Exascale Computing: Potential Use-Cases, Capacity Requirements and Threats.	Matt Hare, Douglas Salt, Ric Colasanti, Richard Milton, Mike Batty, Alison Heppenstall and Gary Polhill	08-May	10a
842	Distance-Aware Attentive Framework for Multi-Agent Collaborative Perception in Presence of Pose Error	Binyu Zhao, Wei Zhang and Zhaonian Zou	09-May	45B
845	Leveraging Sub-Optimal Data for Human-in-the-Loop Reinforcement Learning	Calarina Muslimani and Matthew Taylor	09-May	37A
859	Decision-Focused Model-based Reinforcement Learning for Reward Transfer	Abhishek Sharma, Sonali Parbhoo, Omer Gottesman and Finale Doshi-Velez	09-May	36A
868	Behaviour Modelling of Social Animals via Causal Structure Discovery and Graph Neural Networks	Gaël Gendron, Yang Chen, Mitchell Rogers, Yiping Liu, Mihailo Azhar, Shahrokh Heidari, David Arturo Soriano Valdez, Kobe Knowles, Padriac O'Leary, Simon Eyre, Michael Witbrock, Gillian Dobbie, Jiamou Liu and Patrice Delmas	08-May	11a
876	Geospatial Active Search for Preventing Evictions	Anindya Sarkar, Alex DiChristofano, Sanmay Das, Patrick Fowler, Nathan Jacobs and Yevgeniy Vorobeychik	09-May	5A
880	Efficient Size-based Hybrid Algorithm for Optimal Coalition Structure Generation	Redha Taguelmimt, Samir Aknine, Djamila Boukredera, Narayan Changder and Tuomas Sandholm	08-May	16A
894	t-DGR: A Trajectory-Based Deep Generative Replay Method for Continual Learning in Decision Making	William Yue, Bo Liu and Peter Stone	09-May	44B
901	Decision Making in Non-Stationary Environments with Policy-Augmented Search	Ava Pettet, Yunuo Zhang, Baiting Luo, Kyle Wray, Hendrik Baier, Aron Laszka, Abhishek Dubey and Ayan Mukhopadhyay	09-May	43B

904	Anytime Multi-Agent Path Finding using Operator Parallelism in Large Neighborhood Search	Shao-Hung Chan, Zhe Chen, Dian-Lun Lin, Yue Zhang, Daniel Harabor, Sven Koenig, Tsung-Wei Huang and Thomy Phan	09-May	8A
905	On the existence of EFX under picky or non-differentiative agents	Maya Viswanathan and Ruta Mehta	09-May	24B
914	Fair Allocation of Conflicting Courses under Additive Utilities	Arpita Biswas, Yiduo Ke, Samir Khuller and Quanquan Liu	09-May	16B
947	A Specific-Purpose Linux Distribution for Embedded BDI-based Multi-agent Systems	Nilson Mori Lazarin, Carlos Pantoja and Jose Viterbo	09-May	8B
969	Proportionality and Free Riders: Committee Selection with Strategic Voters	Kerry Lu and Brandon Fain	09-May	15B
974	Defining Deception in Decision Making	Marwa Abdulhai, Micah Carroll, Justin Svegliato, Anca Dragan and Sergey Levine	08-May	7A
976	Quantifying Agent Interaction in Multi-agent Reinforcement Learning for Cost-efficient Generalization	Yuxin Chen, Chen Tang, Ran Tian, Chenran Li, Jinning Li, Masayoshi Tomizuka and Wei Zhan	09-May	35A
982	Efficiently Solving Min-Max Routing Problems via Parallel Autoregressive Policies	Federico Berto, Chuanbo Hua, Junyoung Park and Jinkyoo Park	09-May	34A
983	Bounding consideration probabilities in consider-then-choose ranking models	Ben Aoki-Sherwood, Catherine Bregou, David Liben-Nowell, Kiran Tomlinson and Thomas Zeng	09-May	42B
997	Optimal majority rules and quantitative Condorcet properties of setwise Kemeny voting schemes	Xuan Kien Phung and Sylvie Hamel	09-May	14B
999	Banzhaf Power in Hierarchical Games	John Randolph, Amy Greenwald and Denizalp Goktas	09-May	13B

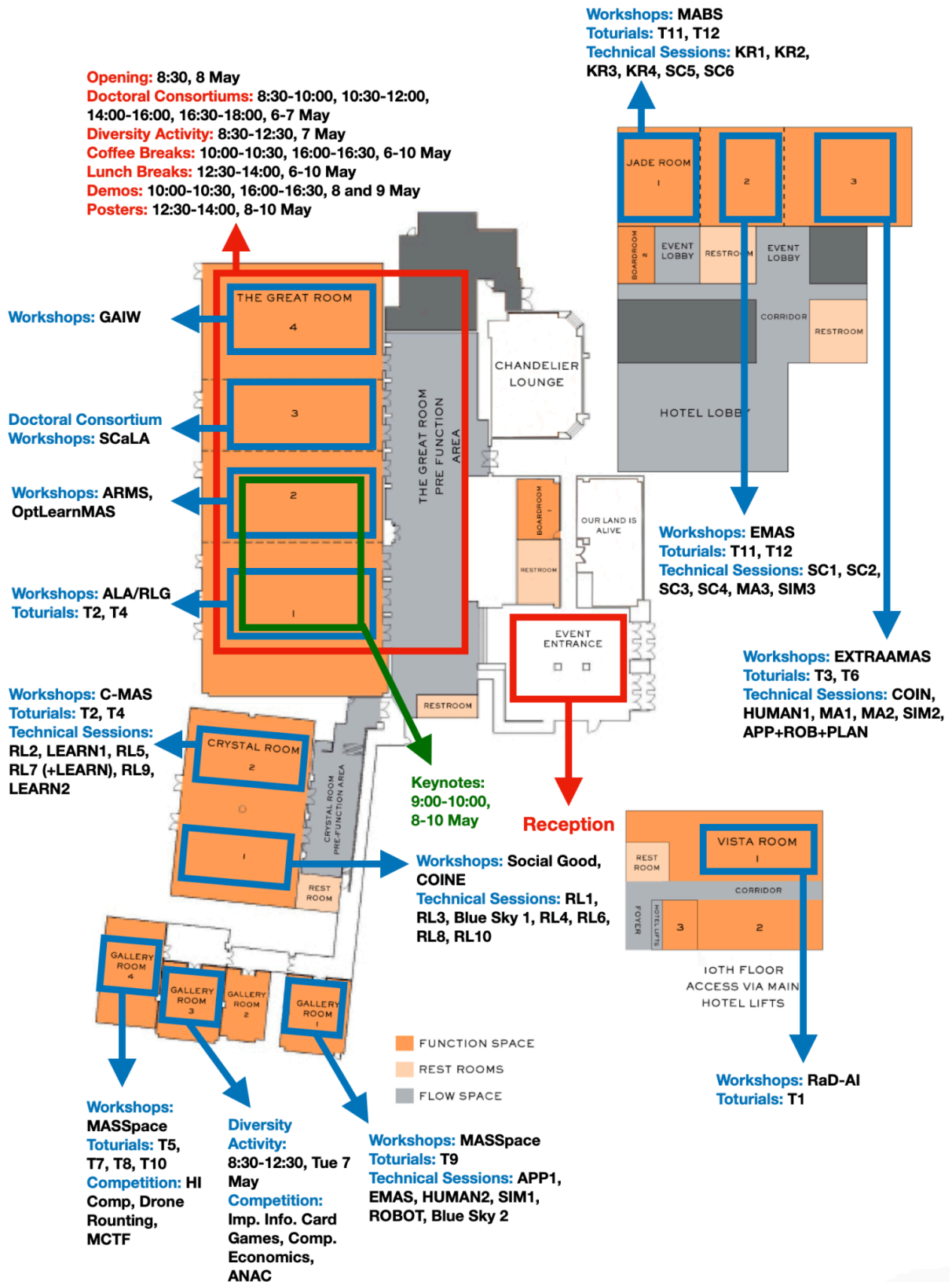| 1010	Efficient Collaboration with Unknown Agents: Ignoring Similar Agents without Checking Similarity	Yansong Li and Shuo Han	09-May	33A
1015	Difference of Convex Functions Programming for Policy Optimization in Reinforcement Learning	Akshat Kumar	09-May	32B
1023	A Multiagent Path Search Algorithm for Large-Scale Coalition Structure Generation	Redha Taguelmimt, Samir Aknine, Djamila Boukredera, Narayan Changder and Tuomas Sandholm	08-May	16B
1027	On the Computational Complexity of Quasi-Variational Inequalities and Multi-Leader-Follower Games	Bruce M. Kapron and Koosha Samieefar	09-May	18A
1029	Non Stationary Bandits with Periodic Variation	Titas Chakraborty and Parth Shettiwar	09-May	31B
1051	Concurrency model of BDI programming frameworks: why should we control it?	Martina Baiardi, Samuele Burattini, Giovanni Ciatto, Danilo Pianini, Andrea Omicini and Alessandro Ricci	09-May	7B
1067	Reinforcement learning for question answering in programming domain using public community scoring as a human feedback	Alexey Gorbatovski and Sergey Kovalchuk	08-May	8A
1068	Improving Utilization and Sustainability of Low-power Wireless Sensors through Decentralized Role Allocation in a Multi-agent System	Ganesh Ramanathan, Simon Mayer, Simon Hess and Andres Gomez	09-May	6B
1073	Social Identities and Responsible Agency	Karthik Sama, Jayati Deshmukh and Srinath Srinivasa	08-May	12a
1074	Modelling the Dynamics of Subjective Identity in Allocation Games	Janvi Chhabra, Jayati Deshmukh and Srinath Srinivasa	08-May	2b
1075	Semantic Bridges in Engineering: Integrating Knowledge to Enable Autonomous Systems for Automation	Ganesh Ramanathan, Simon Mayer and Andrei Ciortea	09-May	5B
1077	User-centric Explanation Strategies for Interactive Recommenders	Berk Buzcu, Emre Kuru and Reyhan Aydogan	08-May	8B

1083	Who gets the Maximal Extractable Value? A Dynamic Sharing Blockchain Mechanism	Georgios Chionas, Pedro Braga, Stefanos Leonardos, Carmine Ventre, Georgios Piliouras and Piotr Krysta	09-May	41B
1095	Quantum Circuit Design: A Reinforcement Learning Challenge	Philipp Altmann, Adelina Bärligea, Jonas Stein, Michael Kölle, Thomas Gabor, Thomy Phan and Claudia Linnhof-Popien	09-May	30B
1097	Simple k-crashing Plan with a Good Approximation Ratio	Ruixi Luo, Kai Jin and Zelin Ye	09-May	27B
1100	Risk-Sensitive Multi-Agent Reinforcement Learning in Network Aggregative Markov Games	Hafez Ghaemi, Hamed Kebriaei, Alireza Ramezani Moghaddam and Majid Nili Ahmadabadi	09-May	29B
1107	Truthful and Stable One-sided Matching on Networks	Tianyi Yang, Yuxiang Zhai, Dengji Zhao, Xinwei Song and Miao Li	09-May	12B
1115	Deep Hawkes Process for High-Frequency Market Making	Pankaj Kumar	08-May	3B
1116	Agent-Based Triangle Counting and its Applications in Anonymous Graphs	Prabhat Kumar Chand, Apurba Das and Anisur Rahaman Molla	09-May	13A
1124	Aleatoric Predicates: Reasoning about Marbles	Tim French	09-May	28B
1128	Hybrid Participatory Budgeting: Divisible, Indivisible, and Beyond	Gogulapati Sreedurga	09-May	11B

Map of Poster Boards

Demos

All demo booths are located in **The Great Room**. On the assigned date, demonstrations will run during both coffee breaks in the morning and afternoon, as well as during the lunch break (i.e., 10:00-10:30, 12:30-14:00, and 16:00-16:30).

Demonstration	Date	Demo Booth
SMT4SMTL: a Tool for SMT-Based Satisfiability Checking of SMTL	May 8, 2024	Demo Booth 1
pgeon applied to Overcooked-AI to explain agents' behaviour	May 8, 2024	Demo Booth 2
Naphtha Cracking Center Scheduling Optimization using Multi-Agent Reinforcement Learning	May 8, 2024	Demo Booth 3
A Symbolic Sequential Equilibria Solver for Game Theory Explorer	May 8, 2024	Demo Booth 4
Conversational Language Models for Human-in-the-Loop Multi-Robot Coordination	May 8, 2024	Demo Booth 5
STV+KH: Towards Practical Verification of Strategic Ability for Knowledge and Information Flow	May 9, 2024	Demo Booth 1
Engaging the Elderly in Exercise with Agents: A Gamified Stationary Bike System for Sarcopenia Management	May 9, 2024	Demo Booth 2
Imitation Learning Datasets: A Toolkit For Creating Datasets, Training Agents and Benchmarking	May 9, 2024	Demo Booth 3
End to end camera only drone detection and tracking demo within a multi-agent framework with a CNN-LSTM model for range estimation.	May 9, 2024	Demo Booth 4
EVtonomy: A Personalised Route Planner for Electric Vehicles	May 9, 2024	Demo Booth 5

AAMAS 2024 Situation Map

Workshops: MABS
Toturials: T11, T12
Technical Sessions: KR1, KR2, KR3, KR4, SC5, SC6

Opening: 8:30, 8 May
Doctoral Consortiums: 8:30-10:00, 10:30-12:00, 14:00-16:00, 16:30-18:00, 6-7 May
Diversity Activity: 8:30-12:30, 7 May
Coffee Breaks: 10:00-10:30, 16:00-16:30, 6-10 May
Lunch Breaks: 12:30-14:00, 6-10 May
Demos: 10:00-10:30, 16:00-16:30, 8 and 9 May
Posters: 12:30-14:00, 8-10 May

Workshops: GAIW

Doctoral Consortium
Workshops: SCaLA

Workshops: ARMS, OptLearnMAS

Workshops: ALA/RLG
Toturials: T2, T4

Workshops: C-MAS
Toturials: T2, T4
Technical Sessions: RL2, LEARN1, RL5, RL7 (+LEARN), RL9, LEARN2

Workshops: EMAS
Toturials: T11, T12
Technical Sessions: SC1, SC2, SC3, SC4, MA3, SIM3

Workshops: EXTRAAMAS
Toturials: T3, T6
Technical Sessions: COIN, HUMAN1, MA1, MA2, SIM2, APP+ROB+PLAN

THE GREAT ROOM 4

3

2

1

THE GREAT ROOM PRE FUNCTION AREA

CHANDELIER LOUNGE

JADE ROOM 1

BOARDROOM 2

EVENT LOBBY

RESTROOM

2

3

EVENT LOBBY

CORRIDOR

RESTROOM

HOTEL LOBBY

BOARDROOM

OUR LAND IS ALIVE

RESTROOM

EVENT ENTRANCE

RESTROOM

Keynotes: 9:00-10:00, 8-10 May

Reception

CRYSTAL ROOM 2

1

CRYSTAL ROOM PRE-FUNCTION AREA

REST ROOM

Workshops: Social Good, COINE
Technical Sessions: RL1, RL3, Blue Sky 1, RL4, RL6, RL8, RL10

VISTA ROOM 1

REST ROOM

CORRIDOR

FOYER

HOTEL LIFTS

3

2

10TH FLOOR ACCESS VIA MAIN HOTEL LIFTS

Workshops: RaD-AI
Toturials: T1

GALLERY ROOM 4

GALLERY ROOM 3

GALLERY ROOM 2

GALLERY ROOM 1

FUNCTION SPACE
REST ROOMS
FLOW SPACE

Workshops: MASSpace
Toturials: T5, T7, T8, T10
Competition: HI Comp, Drone Rounting, MCTF

Diversity Activity: 8:30-12:30, Tue 7 May
Competition: Imp. Info. Card Games, Comp. Economics, ANAC

Workshops: MASSpace
Toturials: T9
Technical Sessions: APP1, EMAS, HUMAN2, SIM1, ROBOT, Blue Sky 2
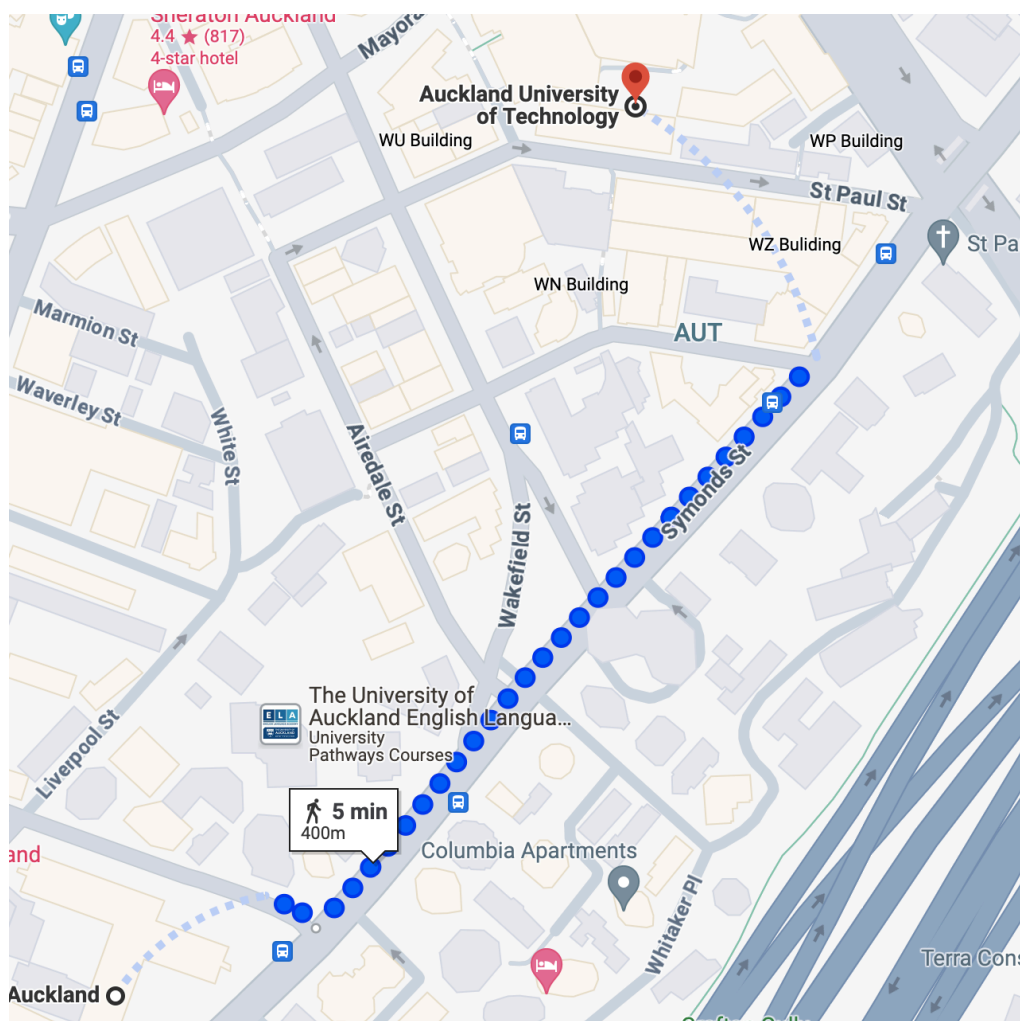
Opening Reception

Address and Time

The AAMAS 2024 Opening Reception will take place at
Auckland University of Technology's Open Forum, Tuesday 7 May, starting at 18:30.
(500m walk from the Cordis Hotel)

**Please bring your badge.**

Banquet

Address and Time

The AAMAS Banquet Dinner will take place at
Under the Dome, Auckland Museum, Thursday 9 May from 18:30.
Reserved for participants with tickets (shown on badge).

Directions from Cordis Hotel

By Conference Bus. The conference will provide bus service. Please gather around at Cordis Hotel at 17:30.
On foot. Walk for 25 minutes.
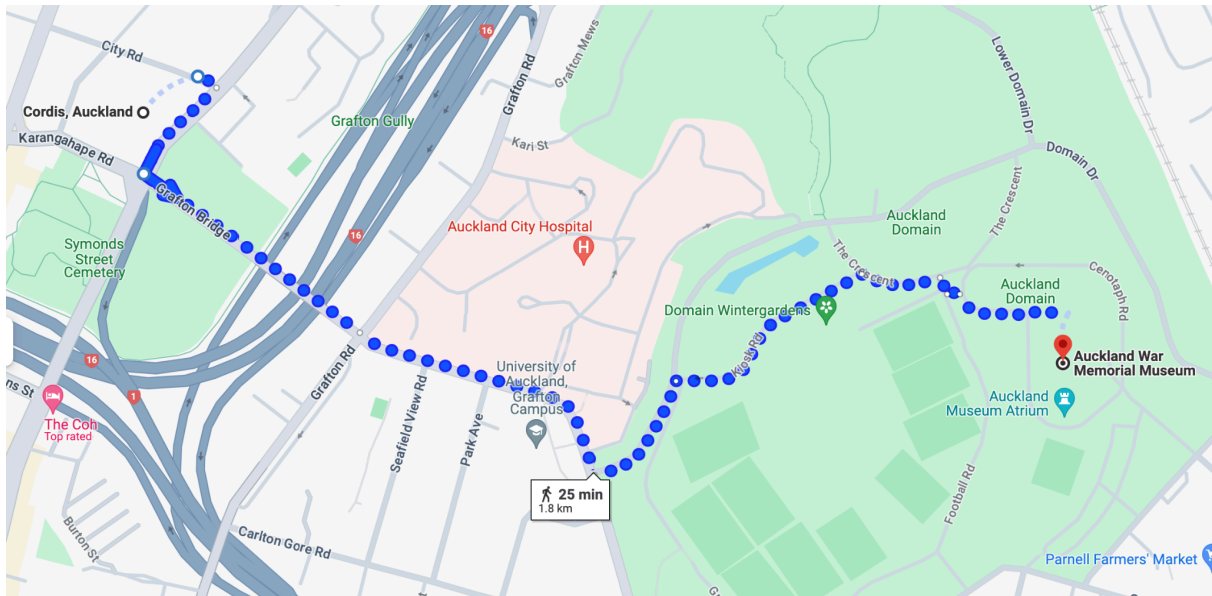
off at Park Rd/Auckland City Hospital station. Then walk for 12 minutes.

General Information

Venue

The venue of the main conference is the [Cordis Hotel](https://www.cordishotels.com/en/auckland/), a 5-star and one of the largest hotels in Auckland.
https://www.cordishotels.com/en/auckland/

Registration and Information Desk

Registration and information desks during the conference days will be at the Event Entrance close to the Great Room Pre Function Area.

Please see below for the schedule:

Day	Time	Location
Mon 6 May	8:00-16:00	Event Entrance
Tue 7 May	8:00-18:30	Event Entrance
Wed 8 May	8:00-18:30	Event Entrance
Thu 9 May	8:00-17:30	Event Entrance
Fri 10 May	8:00-16:00	Event Entrance

Internet / WiFi

Wireless internet is available to conference participants in all meeting rooms and atriums.

Navigation Hints

Book a Flight to New Zealand

Book a flight to New Zealand online or via your local travel agent. You'll be enjoying stunning landscapes and meeting friendly locals in no time.

More Information:
https://www.newzealand.com/int/flights-to-new-zealand/

Auckland Airport

The largest and busiest airport in New Zealand, modern Auckland Airport services more than 15 million passengers a year.

For seven years running, Auckland Airport has been voted 'Best Airport in Australia Pacific' in the SKYTRAX Airport Awards. The ongoing expansion and revitalisation to provide world-class facilities makes it a relaxing and efficient way for delegates to arrive at your Auckland event. More details.

Airport Transportation

Direction from Auckland International Airport to Cordis
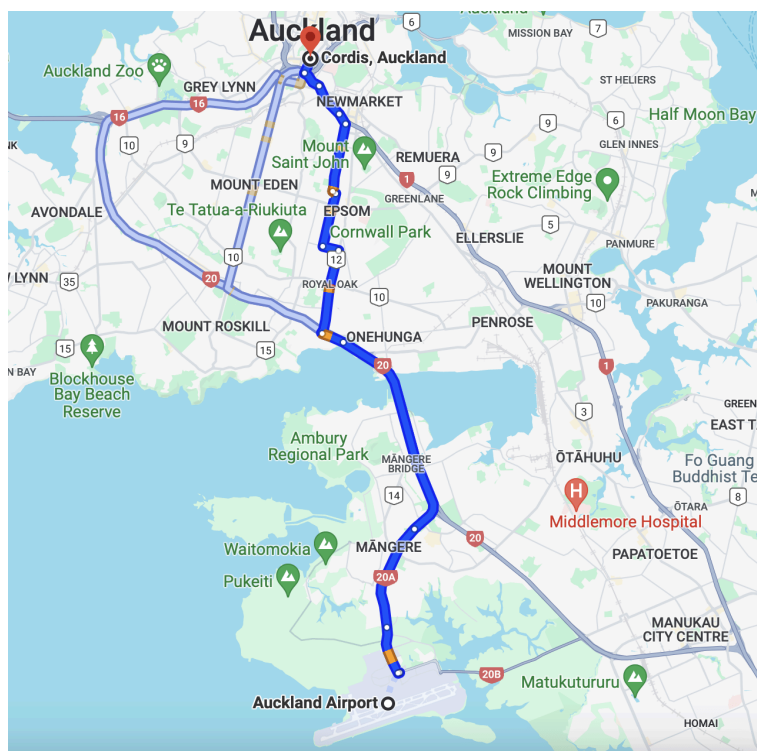
Getting to and from Auckland Airport is easy, with shuttle and bus services departing regularly, and safe, efficient taxis. Once delegates have transferred to their accommodation. Here are options to transfer to and from the airport.

Super Shuttle

Super Shuttle provides door-to-door service with the shared van. They pick you up from or deliver you to your doorstep from home, hotel, office or anywhere.
Phone: 0800 SHUTTLE (0800 748 885)
Website: www.supershuttle.co.nz

Taxi

Taxis are located in front of the international and domestic airport terminals. The approximate cost for a taxi from the airport to the city centre is NZ$60-$80. A shuttle is approximately NZ$30 per person.

Company	Link	Per KM Rate	Fixed Fare to CBD
Alert Taxis	https://www.alerttaxis.co.nz/	$2.47	$65
Auckland Co-op Taxis	http://www.cooptaxi.co.nz/	$2.47	$68
Auckland Taxi Service	https://aucklandtaxiservice.co.nz/	$2.50	$69
Cheap Cabs	http://www.cheaptaxi.co.nz/	$2.15	$38
Corporate Cabs	https://www.corporatecabs.co.nz/	$2.70	$75
Green Cabs	https://www.greencabs.co.nz/	$2.45	$65

Useful Information

Banks

Monday to Friday, 9am to 4.30pm. Some banks in shopping centres are also open during the weekend. New Zealand's main banks are ANZ, ASB, BNZ, Kiwibank, TSB, and Westpac

Biosecurity

In order to protect New Zealand and its environment, certain items are not allowed to be brought into the country, have restrictions for entry, or must be declared if they are deemed to present a biosecurity risk. These include food, plants, animal products and outdoor recreational equipment. You may risk a fine if you fail to comply.

Climate and seasonality

Auckland's summer is from December to February, autumn or fall is from March to May, winter is from June to August and spring is from September to November. Daytime temperatures range from 20° to 30° Celsius (60° to 86° Fahrenheit) during the spring and summer, and from 10° to 17° Celsius (50° to 63° Fahrenheit) in the fall and winter.

In autumn, New Zealand enjoys some of the most settled weather of the whole year. Soak up long, sunny days and golden leaves with hiking, cycling or kayaking.

Temperatures range from 7 – 21 degrees celsius (45 – 70F).

More Information:
https://www.newzealand.com/int/seasons-in-new-zealand/

Currency

New Zealand's unit of currency is the dollar (NZ$). All major credit cards can be used in New Zealand, with Visa and MasterCard accepted most widely.

More Information:
https://www.newzealand.com/int/feature/new-zealand-currency

Driving

Drive on the left side of the road in New Zealand. All drivers, including visitors from other countries, must carry their licence or permit at all times when driving. Delegates will only be able to drive the same type of vehicles they are licensed to drive in their home country.

More Information:
https://www.newzealand.com/int/driving-in-new-zealand

Electricity

New Zealand's electricity supply runs at 230/240 volts and uses angled two or three pin plugs (the same as Australia and parts of Asia).

Emergency services

111 is the emergency phone number for police, fire and ambulance services.

More Information:
https://www.govt.nz/browse/law-crime-and-justice/crimes-and-emergencies/111-emergency-service/

Health and vaccinations

No vaccination certificates are required. Public and private hospitals provide a high standard of treatment and care. Medical services are not free to visitors, so travel insurance that covers medical and health is recommended.

Internet & phone coverage

Staying connected in New Zealand is easy with a little forward planning.

More Information:
https://www.newzealand.com/int/feature/internet-and-wifi-access-in-new-zealand

Languages

English is the everyday language in New Zealand, with Māori and New Zealand Sign Language also official languages.

Mobile telephones

Like most countries, New Zealand operates on a 900 or 1800 MHz network. However, some mobiles cannot use international roaming on this frequency. Delegates may buy or rent a New Zealand-compatible phone or sim card upon arrival.

Postal services

Delegates can buy stamps and post items at Postshops. Stamps can also be purchased from stationers and many convenience stores. Look for red, black and white post boxes to post letters.
More Information:
https://www.nzpost.co.nz/tools/postshop-kiwibank-locator

Safety and security

New Zealand is generally a very safe place to travel, with a relatively low crime rate. However, it is advisable to observe the same precautions with your personal safety and your possessions as you would in any other country or at home. New Zealand is a democratic and politically stable country.

Shopping

Standard shopping hours from Monday to Friday are 9am-5pm, with most shopping centres open until 6pm. Some shops and malls are open late on Thursday and Friday to 9pm. On Saturday and Sunday most malls are open normal shopping hours.
More Information:
https://www.newzealand.com/int/shopping/

Smoke-free policies

In New Zealand it is illegal to smoke in most indoor spaces, including workplaces, function venues, cinemas, pubs, restaurants and hospitality venues, as well as all public transport. Cigarettes cannot be sold to anyone under 18.
More Information:
https://www.smokefree.org.nz/smokefree-environments/legislation

Time zone

New Zealand is one of the first places in the world to see the new day, 12 hours ahead of GMT (Greenwich Mean Time).
More Information:
https://www.newzealand.com/int/feature/new-zealand-time-zones/

Tipping and service charges

Tipping is not expected in New Zealand but delegates may wish to tip for special service or kindness.

Visitor information centres

i-SITE is New Zealand's official visitor information network. There are currently 80 i-SITE locations found throughout New Zealand where you can speak to a travel expert for local knowledge and bookings throughout New Zealand.

More Information:
https://www.newzealand.com/int/visitor-information-centre/

Things to do in Auckland

See New Zealand Tourism (https://www.newzealand.com/uk/feature/discover-experiences-in-auckland/) for more information.

Visit Rangitoto Island

Auckland's most iconic island, Rangitoto is a dormant volcanic cone that sits just off the coast from the central city. Take a short ferry from downtown Auckland to walk to the summit for spectacular views.
Ferry Ticket booking:
https://www.fullers.co.nz/booking/?from=AUCK&to=RANG

Discover art and culture

Learn about the Māori history and traditions at the Auckland War Memorial Museum and explore the modern and traditional world-class exhibitions at the Auckland Art Gallery Toi o Tāmaki.

The Sky Tower

The iconic Sky Tower - 192 metres above ground level!

Mount Eden

This dormant volcano, surrounded by lush greenery, offers panoramic views of the city and its twin craters.

Visit Waiheke Island 'the island of wine'

Spend a day or a few hours, Waiheke Island is the ultimate island retreat, just a 40-minute ferry ride from downtown Auckland. Best known as the 'island of wine' for its many wineries and vineyards, a wine tasting tour or an indulgent lunch is a must. Enjoy spectacular views and explore the beaches, restaurants, and other activities on the island.

Ferry Ticket booking: https://www.fullers.co.nz/booking/?sc=FGLNAKLWAI

Mission Bay

Mission Bay is a seaside suburb of Auckland city, on the North Island of New Zealand. The suburb's beach is a popular resort, located alongside Tamaki Drive.

Piha Beach and Rainforest Tour

Spend an afternoon visiting top natural attractions, including Piha Beach and Waitakere Ranges rainforest on an afternoon tour from Auckland. Stop at the Arataki Visitor Centre for views that stretch from the Pacific Ocean to the Tasman Sea, and hear commentary from your guide about Maori history and New Zealand's wildlife.

Explore New Zealand

New Zealand is a land of immense and diverse landscapes. You'll experience natural wonders and unique culture here that you won't find anywhere else in the world.

Find out more about New Zealand here http://www.newzealand.com/int/destinations/
Looking for some guidance on itinerary planning? Click here
http://www.newzealand.com/int/trips-and-driving-itineraries/

New Zealand accommodation options are diverse, with something to suit every level of comfort and budget http://www.newzealand.com/int/accommodation/

New Zealand has myriad different events on throughout the year, from sports fixtures to cultural festivals. Add one to your itinerary before or after your conference. Find out what is on here http://www.newzealand.com/int/events/
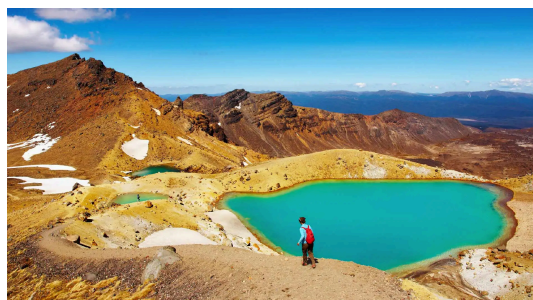

Milford Sound

The "Lonely Tree"

Queenstown

Mount Tongariro

Mount Cook

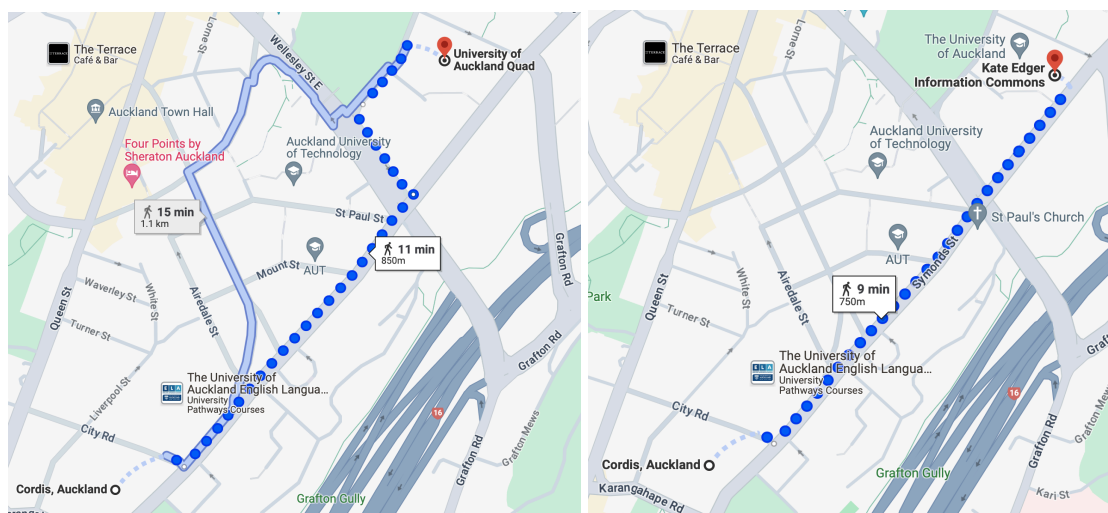Lake Tekapō

Food Venue Recommendations

Apart from the food provided by the Hotel, attendees also have other options for food venues that are close to the conference venue.

In **University of Auckland**
Food court 1: Student Quad, 34 Princes St (11 min-walk from Cordis)
Food court 2: Kate Edger Information Commons, 11 Symonds St (9 min-walk from Cordis)
https://www.auckland.ac.nz/en/on-campus/facilities-and-services/food-and-retail/food-and-drink-on-campus.html

In **Auckland University of Technology**
Food court: Level 3, WG building, City Campus, AUT (8 min-walk from Cordis)
https://www.aut.ac.nz/student-life/around-campus/food-and-retail-on-campus