## Autonomous Robots and Multirobot Systems (ARMS) 2025 AAMAS 2025 Workshop

Monday, May 19 – Room: LaSalle B, 5th Floor

08:40	Enhancing Lifelong Multi-Agent Path Finding with Cache Mechanism Yimin Tang, Zhenghong Yu, Yi Zheng, T. K. Satish Kumar, Jiaoyang Li, Sven Koenig
09:05	Multi-Agent Pickup and Delivery with Batteries  Marcello Bavaro, Francesco Amigoni
09:30	Rearrangement Optimization for High-Density, Grid-Based Storage Systems Tzvika Geft, Kostas Bekris, Jingjin Yu
	Coffee break from 10:00 to 10:45
10:45	Exploiting Aggregate Programming for Task Assignment in a Multi-Robot Library Service Prototype Giorgio Audrito, Andrea Basso, Daniele Bortoluzzi, Ferruccio Damiani, Giordano Scarso, Gianluca Torta
11:10	Safe Monte Carlo planning with velocity obstacles for mobile robots in dynamic environments Lorenzo Bonanni, Daniele Meli, Alberto Castellini, Alessandro Farinelli
11:35	Robust Trajectory Generation and Control for Quadrotor Motion Planning with Field-of-View Control Barrier Certification Lishuo Pan, Mattia Catellani, Lorenzo Sabattini, Nora Ayanian
12:00	Transformer Guided Coevolution: Improved Team Selection in Multiagent Adversarial Team Games Pranav Rajbhandari, Prithviraj Dasgupta, Donald Sofge
	Lunch break from 12:30 to 14:00
14:00	Continual Reinforcement Learning via Autoencoder-Driven Task and New Environment Recognition <i>Zeki Doruk Erden, Donia Gasmi, Boi Faltings</i>
14:25	Agential AI for Integrated Continual Learning, Deliberative Behavior, and Comprehensible Models Zeki Doruk Erden, Boi Faltings
14:50	Fast and the Furious: Hot Starts in Pursuit-Evasion Games Gabriel Smithline, Scott Nivison
15:15	Mixed Strategy Constraints in Continuous Games  Mel Krusniak, Forrest John Laine
	Coffee break from 15:45 to 16:30
16:30	Emergent Swarm Behavior Prediction using 1D-Convolution for Autonomous Closed-Loop Behavior Control Varun Raveendra, Connor Mattson, Daniel S. Brown
16:55	Towards Decentralised Formation of Minimal-Length Networks Using Swarms of Robots Genki Miyauchi, Mohamed S. Talamali, Alan G. Millard, Roderich Gross
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Discussion and closing remarks