

| About the Conference

This workshop will explore the challenges and opportunities of Multi-Agent Reinforcement Learning (MARL) in the context of autonomous transportation systems. It aims to address critical issues such as coordination, cooperation, scalability, and real-time decision-making among multiple autonomous agents in complex, real-world transportation environments. The workshop will cover topics including traffic optimization, fleet management, and intelligent infrastructure, bringing together experts from academia and industry to discuss the latest advancements and practical applications of MARL.

Topics

Topics of interest include MARL algorithms for autonomous transportation, encompassing cooperative and competitive approaches, traffic optimization, congestion management, fleet management, and autonomous vehicle coordination. This also involves MARL-based decision-making, planning, and communication strategies for autonomous agents. Further topics include transfer learning, generalization across transportation scenarios, safety and ethical

Important Dates

 CONFERENCE DATE
March 3, 2025

considerations, and the scalability and real-time adaptation of MARL algorithms. Hybrid approaches combining MARL with deep learning, game theory, and other techniques are also of interest, along with simulations, real-world deployment, urban mobility, logistics, and ride-sharing applications. Evaluation metrics, benchmarks for performance assessment, human-agent interactions, and ensuring the robustness and resilience of MARL algorithms in uncertain or adversarial environments are key areas of focus as well.

Format of Workshop

The workshop will be a one-day meeting comprising keynote talks from researchers in the field, contributed talks, spotlight talks and a poster session where contributing paper presenters can discuss their work. Attendance is open to all registered participants.

Attendance

Anyone with interest in the workshop, and registered for AAI workshops, is welcome to attend.

Submission requirements

Either extended abstracts (4 pages) or full papers (7 pages) anonymized using the AAI 2025 style guidelines, not including references and supplementary can be submitted. We welcome articles currently under review or papers planned for publication elsewhere as extended abstracts.

Submission Site Information

<https://openreview.net/group?id=AAAI.org/2025/Workshop/MALTA>

Workshop Chairs

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Workshop URL

<https://sites.google.com/view/malta2025>

Important Dates:

Paper (full/poster/short/position) submission

deadline: November 17, 2024

Author Notification: December 9, 2024

Presentation/Poster Upload: Feb 1, 2025

Workshop date: March 3, 2025

TOPICS OF INTEREST

4 topics

Research papers are invited in, but not limited to, the following areas:

Uncategorized

Transportation & Logistics

Robotics & automation

Artificial Intelligence & Machine Learning

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