Autonomous Robots and Multirobot Systems (ARMS) 2024
AAMAS 2024 Workshop
Monday, May 6 - Great Room 2

Each talk is 20-25 minutes long, with 5-10 extra minutes for discussion.

9:20   Opening

9:30   **Coverage Path Planning using Multiple AUVs with Nadir Gap**
        Nikhil Chandak, Charu Sharma and Kamalakar Karlapalem

10:00   **Multi-agent path finding using time-extended graphs using auctions**
        Simanta Barman, Angel Sylvester, Ebasa Temesgen, Michael Levin and Maria Gini

10:30   Break

11:00   *Invited talk*: **Mixed-Initiative Decision-Making in Human-Robot Teams**
        Manisha Natarajan

11:30   **Estimating Map Completeness in Robot Exploration**
        Matteo Luperto, Marco Maria Ferrara, Giacomo Boracchi and Francesco Amigoni

12:00   **Ontological Modeling and Reasoning for Comparison and Contrastive Narration of Robot Plans**
        Alberto Olivares-Alarcos, Sergi Foix, Júlia Borràs, Gerard Canal and Guillem Alenyà

12:30   Break

14:00   **Evolutionary Reward Design and Optimization with Multimodal Large Language Models**
        Ali Emre Narin

14:30   **Collective decision making in animals and robots with asocial behaviour**
        Andreagiovanni Reina and Raina Zakir

15:00   **Agent's Cooperation Levels to Enhance Human-Robot Teaming**
        Sridath Tula, Marie-Pierre Pacaux-Lemoine, Emmanuelle Grislin-Le Strugeon, Paulo Eduardo
        Santos, Anna Ma-Wyatt and Jean-Philippe Diguet

15:30   **A Computational Model of Robot Trust for Human-Robot Teams**
        Bhavana Nare, John Frericks, Anusha Challa, Prashant Doshi and Jaime Camelio

16:00   **Risk-aware Safe Control for Decentralized Multi-agent Systems via Dynamic Responsibility Allocation**
        Yiwei Lyu, Wenhao Luo and John Dolan

16:30   Discussion and closing remarks