Welcome to the Novel Engineering for Swarm Technologies Lab!

We conduct research on swarm robotics, including coordination algorithms, software engineering, and human-swarm interaction.

Recent News

Award (Oct 28, 2022)

Stephen Powers received an WPI Graduate Student travel grant to attend ANTS 2022 in Màlaga and present his paper.

GRIE People's Choice Award (April 5, 2022)

Josh Bloom is the recipient of the People's Choice Award at WPI's Graduate Student Innovation Exchange (GRIE). He presented the talk What's Your Intention? Deep Intention Reinforcement Learning for Physically Constrained Multi-Agent Cooperation.

AAMAS Best Paper Award (February 3, 2022)

Ashay Aswale, Antonio Lopez, Aukkawut Ammartayakun, and Carlo Pinciroli are the recipient of the Best Paper Award at AAMAS2022. The paper title is Hacking the Colony: On the Disruptive Effect of Misleading Pheromone and How to Defend Against It.

Recent Publications

Extracting Symbolic Models of Collective Behaviors with Graph Neural Networks and Macro-Micro Evolution


Hacking the Colony: On the Disruptive Effect of Misleading Pheromone and How to Defend Against It

Ashay Aswale, Aukkawut Ammartayakun, Antonio Lopez, Carlo Pinciroli. AAMAS 2022 (Best Paper Award).

Jayam Patel, Prajankya Sonar, Carlo Pinciroli. Swarm Intelligence 2022.