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

**WPI Team Capricorn qualifies for NASA Space Robotics Challenge (January 15, 2021)**

WPI's Team Capricorn passes the qualification round in the NASA Space Robotics Challenge, advancing to the final competition round with 21 other teams out of 114 registered teams.

**Dr. Glenn Yee Graduate Student Tuition Award (August 5, 2020)**

Nathalie Majchercyzk was the recipient of a Dr. Glenn Yee Graduate Student Tuition Award.

**Amazon Research Award (June 17, 2020)**

Carlo Pinciroli was the recipient of an Amazon Research Award for the project *An Immersive Interface for Multi-User Supervision of Multi-Robot Operations*.

**NSF Grant (March 23, 2020)**

Profs. Jing Xiao, Marko Popovic, Jie Fu, and Carlo Pinciroli are lead and co-PIs on a new NSF award "Phase II I/UCRC WPI: Center for Robots and Sensors for the Human Well-Being".

Recent Publications

**Distributed Data Storage and Fusion for Collective Perception in Resource-Limited Mobile Robot Swarms**


**Flow-FL: Data-Driven Federated Learning for Spatio-Temporal Predictions in Multi-Robot Systems**

SMAC: Symbiotic Multi-Agent Construction


Designing Self-Organization in the Physical Realm


Improving Human Performance Using Mixed Granularity of Control in Multi-Human Multi-Robot Interaction