

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

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".

Amazon Robotics Grant (August 1, 2019)

NEST Lab received a grant from [Amazon Robotics](#) for a project on federated learning for robot swarms.

MathWorks Gift (August 1, 2018)

NEST Lab received a gift from [MathWorks](#) for a project on multi-robot visual programming in [Simulink](#).

mRobot Grant (August 1, 2018)

NEST Lab received a grant from mRobot Technologies, Shanghai for a project on navigation and coordination of multiple robots.

Recent Papers

SwarmMesh: A Distributed Data Structure for Cooperative Multi-Robot Applications

Nathalie Majcherczyk, Carlo Pinciroli. [ICRA 2020](#).

A Minimalistic Approach to Segregation

Peter Mitrano, Jordan Burklund, Michael Giancola, Carlo Pinciroli. [MRS 2019](#).

Mixed-Granularity Human-Swarm Interaction

Jayam Patel, Xu Yicong, Carlo Pinciroli. [ICRA 2019](#).

General Robot Co-design: Beyond the Monotone Case

Luca Carlone, Carlo Pinciroli. [ICRA 2019](#).

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