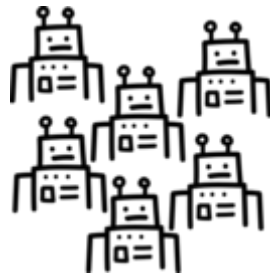


Welcome to NEST lab!

Novel Engineering for Swarm Technologies



What is NEST Lab?

Robot swarms are complex and weird machines. A robot swarm is a distributed system, with a constantly changing communication topology, populated by a large number of individuals that act in the physical space. Robot swarms must react intelligently to environmental stimuli and interact with humans in a friendly manner. At NEST, we study how to best express swarm algorithms, how to make swarms aware of their internal state and the environment, and how to prevent the robocalypse.



Latest News

- **Aug 14, 2017** » [Worcester Channel 3 coverage](#) of research at NEST Lab.
- **Aug 8, 2017** » [Article of WPI Today](#) about research at NEST Lab.
- **May 29, 2017** » [Tutorial](#) about [Buzz](#) at [ICRA2017](#).
- **Apr 5, 2017** » WPI undergrad Brandon M. Sanders awarded a [Summer Undergraduate Research Fellowship](#). Brandon will use this scholarship to join NEST Lab over the summer.
- **Mar 7, 2017** » Nathalie Majcherczyk awarded the first [WPI PhD Global Research Scholarship](#). Nathalie will use this scholarship to visit [MIST Lab](#) in Montreal over the summer.
- **Feb 24, 2017** » WPI undergrad Sierra T. Palmer nominated [Clare Boothe Luce Research Scholar](#). Sierra will use this scholarship to join NEST Lab over the summer.
- **Nov 16, 2016** » Tutorial proposal about [Buzz](#) accepted at [ICRA2017](#).
- **Nov 9, 2016** » Talk about paper *Decentralized Progressive Shape Formation with Robot Swarms* at [DARS2016](#).
- **Oct 29-30, 2016** » [Buzz](#) demo at [NERC2016](#).
- **Oct 12, 2016** » Talk about [Buzz](#) at [IROS2016](#).
- **Sep 28, 2016** » Paper *Swarm-Oriented Programming of Distributed Robot Networks* to appear on the [IEEE Computer Magazine](#).

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