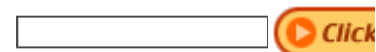




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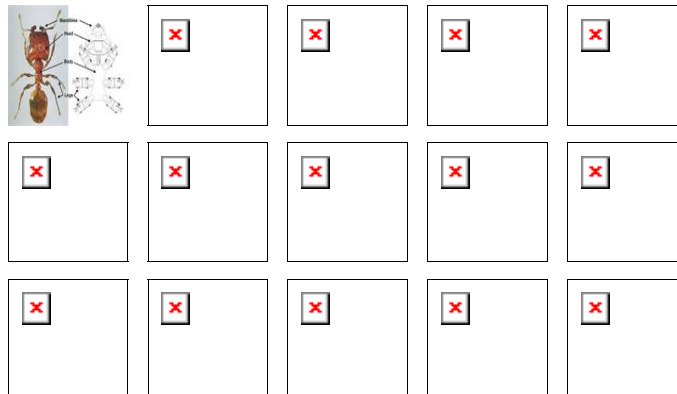


Ant Robotics

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General Description

Ant robotics is a special case of swarm robotics. Swarm robots are simple and cheap robots with limited sensing and computational capabilities. This makes it feasible to deploy teams of swarm robots and take advantage of the resulting fault tolerance and parallelism. Swarm robots cannot use conventional planning methods due to their limited sensing and computational capabilities. Thus, their behavior is often driven by local interactions. Ant robots are swarm robots that can communicate via

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markings, similar to ants that lay and follow pheromone trails. Some ant robots use long-lasting trails either regular trails of a chemical substance 1 or smart trails of transceivers 2 , others use short-lasting trails heat, 3 odor 4 or alcohol 5 , and others even use virtual trails.

Researchers have developed ant robot hardware and software and demonstrated, both in simulation and on physical robots, that single ant robots or teams of ant robots solve robot-navigation tasks such as path following 4 and terrain coverage 1 robustly and efficiently. For example, trails coordinate the ant robots via implicit communication and provide an alternative to probabilistic reasoning for solving the simultaneous localization and mapping problem.

Researchers have also developed a theoretical foundation for ant robotics, based on ideas from real-time heuristic search, stochastic analysis and graph theory. 7 Recently, it was shown that a single ant robot modeled as finite state machine can simulate the execution of any arbitrary Turing machine. 8 This proved that a single ant robot, using pheromones, can execute arbitrarily complex single-robot algorithms. However, the result unfortunately does not hold for N robots.

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Web Links : Ant Robotics

Ant robotics - Wikipedia, the free encyclopedia - Ant robotics is a special case of swarm robotics. Swarm robots are simple and cheap robots with limited sensing and computational capabilities.

Ant Robots - At left are a couple of Ant Robots built at the MIT AI Lab by James McLurkin. Photographed with Canon EOS-5 and Canon 50 2.8 macro lens lit by off-camera 430 EZ flash .

Israel Wagner Home Page Ants, Robots and Computation - My Travels With my A u nts Distributed Ant Robotics Go to the ant, thou sluggard consider her ways, and be wise Which having no guide, overseer, or ruler,

BILL-Ant Series Robots - BILL-Ant Series Robots. The Biologically-Inspired Legged Locomotion Ant BILL-Ant is an 18-DOF hexapod with six passive DOF feet for force sensing, a 3-DOF neck and actuated

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Ant-Like Robo

Retired Robots - The Ants - The Ants A Community of Microrobots. The Ants are a community of cubic-inch microrobots at the MIT Artificial Intelligence Lab. There are two main goals for this project.

Creepy Crawler Ant Robot Wonderment Blog - Creepy Crawler Ant Robot Watch the Video. Wow, this robot has incredible movement. A-Pod is an ant inspired hexapod robot with a 2 DOF abdomen tail , a 3 DOF head with

Roboblock Power Ant Robot Kit - RobotShop - Roboblock Power Ant Robot Kit and other robot products. At RobotShop, you will find everything about robotics.

Ant robot - Doctor Who Wiki - The Ants were a race of ant-like robots. The Doctor encountered them in the 30th century, Ace encountered them in Egypt and Benny encountered them in post-Revolutionary France.

Antennae Up! The HEXBUG Ant Colony Invades Toy Fair 2009 - HEXBUG Micro Robotic Creatures NEW YORK BUSINESS WIRE Innovation First, Inc., an industry leader in consumer robotics toys as well as educational and competitive

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Ants More Rational Than Humans? - In a study released online on July 22 in the journal Proceedings of the Royal Society Biological Sciences, researchers at Arizona State University and Princeton University show that ants can accomplish a task more rationally than our multimodal, egg-headed, tool-using, bipedal, opposing-thumbed selves.

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Make Online Amazing ant-inspired robot - "A-Pod is an ant inspired hexapod robot with a 2 DOF abdomen tail , a 3 DOF head with large mandibles. 6 legs with 3 DOF each. Total 25 servos. This video demonstrates body movement and mandible control. I still have to do some mechanical improvements to the legs therefore little walking . The robot are remotely controlled with a custom 2,4 GHz RC transmitter. "

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