

Special Session Proposal for NaBIC 2015

Title: Computational Intelligence in Robotics

Aims, Scope and List of Topics

Computational Intelligence has a long history of being applied in the development and programming of robots, especially in Evolutionary Robotics (ER). In this process, use is often made of Artificial Neural Networks and Fuzzy Computing in creating robotic controllers. More recently, swarm robotics and intelligent robot systems have received much attention as a robotics application of Computational Intelligence. The focus of this session is on novel applications of biologically inspired algorithms to the field of robotics. Researchers are invited to submit papers on state-of-the-art work within this diverse field.

This session will include (but is not limited to) the following topics:

- Biologically inspired evolution of robot controllers and/or morphologies
- Modelling and simulation of robotic systems
- Co-operative or swarm robotics
- Optimization of robots aimed at real-world applications
- Robotics and automation

Organizers

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