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AAMAS'08

Workshop on Formal Models and Methods for Multi-robot Systems

Estoril, Portugal
May, 2008

$$V^*(x, a) = \sum_{y \in \mathcal{X}} P_a(x, y) [r(x, a, y) + \gamma V^*(y) - V^*(x)]$$

Call for Papers

IMPORTANT DATES:

Feb 1, 2008 Deadline for paper submission
Feb 25, 2008 Paper acceptance notification
Mar 7, 2008 Deadline for camera-ready papers

This workshop is sponsored by:



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AAMAS'08

Workshop on Formal Models and Methods for Multi-robot Systems

An increasing number of researchers worldwide are becoming interested in developing formal models and methods that provide tools for Multi-Robot Systems (MRS) analysis (e.g., formal verification, performance quantification) and design from specifications. Such formal techniques can benefit many problems in MRS, such as motion coordination, task planning, and sensor fusion. Examples of formal models and methods include, but are not limited to:

- logic-based methods
- sequential decision-making approaches
- graph-based formation control
- discrete and hybrid system techniques

The key issue is that the models and methods described should apply to systems composed of multiple **robots**, taking into account their specific issues and problems. Both real robots and realistic robot simulations will be acceptable.

The workshop agenda will include invited talks by Alcherio Martinoli and Magnus Egerstedt, as well as student paper presentations and topical discussions. The workshop will be of interest to all researchers in Robotics and Artificial Intelligence who take formal approaches to MRS modeling, analysis and design, as an alternative to ad hoc approaches which may produce very good results for some particular applications, but are hard to generalize to others.

Paper submissions

Papers will be selected for presentation by a review process conducted by the Program Committee members.

Submissions should be sent as an PDF attachments in the AAMAS'08 format with a maximum of 6 pages to

formal@isr.ist.utl.pt

by Feb 1.

Important dates:

- Feb 1, 2008 - Deadline for student paper submissions
- Feb 25, 2008 - Paper acceptance notification

