

# AAMAS'08

## Workshop on Formal Models and Methods for Multi-Robot Systems

### PRELIMINARY SCHEDULE

**Tuesday, May 13<sup>th</sup>, 2008**

<b>09.15 – 09.30</b>	<b>Welcome</b> Pedro Lima, Instituto Superior Técnico Portugal
<b>09.30 – 10.30</b>	<b>Invited talk: Graph-based control of heterogeneous robot networks</b> Magnus Egerstedt, Georgia Institute of Technology, USA
<b>10.30 – 11.00</b>	<b>Paper presentations – Session I</b>  <i>Of Ants and Elephants</i> Asaf Shiloni, Noa Agmon, and Gal A. Kaminka
<b>11.00 – 11.30</b>	<b>Coffee break</b>
<b>11.30 – 13.00</b>	<b>Paper presentations – Session II</b>  <i>Multi-Robot Systems Optimization and Analysis Using MILP and CLP</i> Christian Reinl, Florian Ruh, Frieder Stolzenburg, and Oskar von Stryk  <i>Formal Behavior Specification of Multi-Robot Systems Using Hierarchical State Machines in XABSL</i> Max Rislér and Oskar von Stryk  <i>Combining Supervisory Control of Discrete Event Systems and Reinforcement Learning to Control MRS</i> Goncalo Neto and Pedro U. Lima
<b>13.00 – 14.30</b>	<b>Lunch break</b>
<b>14.30 – 16.00</b>	<b>Paper presentations – Session III</b>  <i>A Temporal Logic for Multi-Agent MDP's</i> Wojciech Jamroga  <i>Greedy approaches for solving task-allocation problems with coalitions</i> Xiaoming Zheng and Sven Koenig  <i>A Fast Conjunctive Resampling Particle Filter for Collaborative Multi-Robot Localization</i> Andrea Gasparri, Stefano Panzieri, and Federica Pascucci
<b>16.00 – 16.30</b>	<b>Coffee break</b>
<b>16.30 – 17.30</b>	<b>Invited talk: A multi-level modeling methodology for swarm robotic systems</b> Alcherio Martinoli, Ecole Polytechnique Fédérale de Lausanne, Switzerland
<b>17.30 – 18.00</b>	<b>Final discussion</b>