

# Languages, methodologies and Development tools for multi-agent systems (LADS 2007)

Durham, September 4-6, 2007

## Technical Programme

**Tuesday, September 4**

### Session 1: Formal Methods

(9:00) **Probabilistic and Logical Beliefs**

*John Lloyd and Kee Siong Ng*

(9:30) **Adjusting a Knowledge-Based Algorithm for Multi-Agent Communication for CPS**

*Egon van Baars and Rineke Verbrugge*

(10:00) **An Argumentation Based Semantics for Agent Reasoning**

*Sanjay Modgil*

### Session 2: Development Methodologies

(11:00) **DCaseLP: a Prototyping Environment for Multilingual Agent Systems**

*Ivana Gungui, Maurizio Martelli and Viviana Mascardi*

(11:30) **SADAAM: Software Agent Development An Agile Methodology**

*Neil Clynch and Rem Collier*

(12:00) **Extending the MaSE Methodology for the Development of Embedded Real-Time Systems**

*Iman Badr, Hisham Mubarak and Peter Göhner*

### Session 3: Tools and Techniques I

(14:00) **A Process Infrastructure for Agent Systems**

*Christine Reese, Matthias Wester-Ebbinghaus, Lawrence Cabac, Till Döriges, and Daniel Moldt*

(14:30) **Specifying Interaction Space Components in a FIPA-ACL Interaction Framework**

*Ernesto German and Leonid Sheremetov*

(15:00) **A Software Architecture-Based Taxonomy of Agent-Oriented Programming Languages**

*Carlos Garcia-Montoro, Emilio Vivancos, Ana Garcia-Fornes and Vicent Botti*

## Thursday, September 6

### Session 4: Programming Languages

(9:00) **A Common Basis for Agent Organisations in BDI Languages**

*Anthony Hepple, Louise Dennis and Michael Fisher*

(9:30) **Goal Selection Strategies for Rational Agents**

*Nick Tinnemeier, Mehdi Dastani and John-Jules Meyer*

(10:00) **simpA: A Simple Agent-Oriented Java Extension for Developing Concurrent Applications**

*Alessandro Ricci and Mirko Viroli*

### Session 5: Tools and Techniques II

(11:00) **Large-Scale Multiagent Platform Benchmarks**

*Jose M. Such, Juan M. Alberola, Luis Mulet, Agustin Espinosa, Ana Garcia-Fornes and Vicent Botti*

(11:30) **Measuring Complexity of Multi-Agent Simulations: An Attempt Using Metrics**

*Franziska Klügl*

(12:00) **A Step towards Fault Tolerance for Multi-Agent systems**

*Katia Potiron, Patrick Taillibert and Amal El-Fallah Seghrouchni*

### Session 6: Applications

(14:00) **The Webbridge Framework for Building Web-Based Agent Applications**

*Alexander Pokahr and Lars Braubach*

(14:30) **Programming Heterogeneous Agent-Based Applications through JIMAF: A Case Study**

*Giancarlo Fortino, Alfredo Garro and Wilma Russo*

(15:00) **Facilitating Agent Development in Open Distributed Systems**

*Mauro Gaspari and Davide Gudi*