

Advance Program

1st Day - May 3 (Saturday)

Opening Session (9:00)

Session A - Interplay between Agents and Objects (9:15 – 10:30)

Chair: Carlos Lucena

Paper 1: Extending UML to Modeling and Design of Multi-Agent Systems

Krishna Kavi, David Kung, Hitesh Bhambhani, Gaurav Pancholi, Marie Kanikarla

Paper 2: Agents and Objects: An Empirical Study on the Design and Implementation of MASs

Alessandro Garcia, Claudio Sant'Anna, Christina Chavez, Viviane Silva, Carlos Lucena, Arndt von Staa

Paper 3: An OO Framework for Building Intelligence and Learning properties in Software Agents

José Alberto Sardinha, Ruy Milidiú, Carlos Lucena, Patrick Paranhos

Coffee Break

Session B – Development Methods for Large-Scale MASs (10:50 – 12:30)

Chair: Julio Cesar Leite (to confirm)

Paper 1: An Agent-Based Requirements Engineering Framework for Complex Socio-Technical Systems

Paolo Donzelli, Paolo Bresciani

Paper 2 - TROPOS-T: Extending the Tropos Methodology to Include Requirements

Jaelson Castro, Rosa Pinto, Andrea Castor, John Mylopoulos

Paper 3: Lexicon Based Ontology Construction

Karin Breitman, Julio Cesar Leite

Paper 4: On Security Requirements Analysis for Multi-Agent Systems

Paolo Bresciani, Paolo Giorgini, Haralambos Mouratidis

Lunch Break

Session B (Continuation) – (14:00)

Paper 5: From Static to Dynamic and back: Three Approaches for Role Composition

Elke Steegmans, Kurt Schelfhout, Tom Holvoet

Session C – Large-Scale Multi-Agent Systems (14:30 – 15:30)

Chair: Ruy Milidiú

Paper 1: InQuality: A Multi-Agent System for Enterprise Quality Management

Andres Diaz Pace, Marcelo Campo, Alvaro Soria, Mario Zito

Paper 2: A Multi-Agent System for Analyzing Massive Scientific Data

Joel Reed, Thomas Potok, Mark Elmore

Coffee Break

Panel – Development Methodologies for Large-Scale MASs (16:00 – 18:00)

Moderator: Jaelson Castro

Panelists: Naftaly Minsky, Carlos Lucena, Paolo Bresciani, Anna Perini (to confirm)

2nd Day - May 4 (Sunday)

Session D – Dependability and QoS in MASs (9:00 – 10:30)

Chair: Alexander Romanovsky

Paper 1: On Monitoring and Steering in Large-Scale Multi-Agent Systems

Takahiro Murata, Naftaly Minsky

Paper 2: A Proposition for Exception Handling in Multi-Agent Systems

Frédéric Souchon, Christelle Urtado, Sylvain Vauttier, Christophe Dony

Paper 3: A Knowledge-Based Methodology for Designing Reliable Multi-Agent Systems

Mark Klein

Paper 4: Security Mechanisms for Mobile Agent Platforms Based on SPKI/SDSI Chain of Trust

Michelle Wangham, Joni Fraga, Rafael Obelheiro

Coffee Break

Panel – Dependability and QoS in Large-Scale MASs (10:50 – 12:30)

Moderator: Rogerio de Lemos

Panelists: Mark Klein, Alexander Romanovsky, Joni Fraga (to confirm), Christophe Dony (to confirm)

Lunch Break

Session E – Development Frameworks for Large MASs (13:30 – 15:30)

Chair: Hassan Gomaa

Paper 1: Object-Oriented Modeling Approaches to Agent-Based Cross-Organizational Workflow Systems

M. Brian Blake, Hassan Gomaa

Paper 2: A Pragmatic Agent Architecture for Layered Component Reuse using Subsystems

Steven Fonseca, Martin Griss

Paper 3: A Multi-Agent Platform for Reconfiguration, Adaptation and Evolution of a System at Architectural Level

Amar Ramdane-Cherif, Samir Benarif

Paper 4: Farm: A Scalable Environment for Multi-Agent Development and Evaluation

Bryan Horling, Roger Mailler, Victor Lesser

Paper 5: Software Engineering Challenges for Mutable Agent Systems

Ladislau Boloni, Majid Khan, Xin Bai, Guoqiang Wang, Yongchang Ji, Dan Marinescu

Coffee Break

Panel – Frameworks and Architectures for Large MASs: Issues & Challenges (16:00 – 18:00)

Moderator: Martin Griss

Panelists: Marin Griss, Hassan Gomaa (to confirm), David Kung