

Advance Program
**4th International Workshop on Software Engineering for Large-Scale
Multi-Agent Systems (SELMAS 2005)**
May 15-16, 2005 - St. Louis, MO, USA

Sunday, May 15

08:30 - 09:00 Registration

09:00 - 09:10 Welcome Address

09:10 - 10:30 Keynote Talk

Invited Speaker – Brian Henderson-Sellers (University of Technology, Sydney, Australia)

10:30 - 11:00 Break

11:00 - 12:30 Technical Session 1

Session Chair – Alessandro Garcia (Lancaster University, UK)

[11:00 - 11:25] **Multiagent Systems Engineering of Organization-based Multiagent Systems**
Scott DeLoach

[11:25 - 11:50] **Analysis and Design of Physical and Social Contexts in Multi-Agent Systems using UML**
Florian Klein and Holger Giese

[11:50 - 12:15] **Synthesis of a Generic MAS Metamodel**
Ghassan Beydoun, Cesar Gonzalez-Perez, Graham Low and Brian Henderson-Sellers

12:15 - 14:00 Lunch

14:00 - 15:30 Technical Session 2

Session Chair – Holger Giese (Paderborn University, Germany)

[14:00 - 14:20] **Opportunistic Exploitation of Knowledge to Increase Predictability of Agent Interactions in MANETs**
Rohan Sen, Gregory Hackmann, Gruia-Catalin Roman and Christopher Gill

[14:20 - 14:40] **Views: Customizable Abstractions for Context-Aware Applications in MANETs**
Kurt Schelfhout, Tom Holvoet and Yolande Berbers

[14:40 - 15:00] **A Case for Adaptation of the Distributed Environment Layout in Multiagent Applications**
Koenraad Mertens, Tom Holvoet and Yolande Berbers

[15:00 - 15:20] **Policy-Driven Configuration and Management of Agent Based Distributed System**
Anand Tripathi, Devdatta Kulkarni and Tanvir Ahmed

15:30 - 16:00 Break

16:00 - 17:30 Panel: Software Engineering for Context-Aware MAS

Panel Chair – Holger Giese (Paderborn University, Germany)

Panelists: Scott DeLoach (Kansas State University, USA), Naftaly Minsky (Rutgers University, USA), Anand Tripathi (University of Minnesota, USA) and Danny Weyns (KU Leuven, Belgium)

Monday, May 16

09:00 – 09:45 Technical Session 3

Session Chair – Alexander Romanovsky (University of Newcastle, UK)

[09:00 – 09:20] **Adaptive Replication of Large-Scale Multi-Agent Systems - Towards a Fault-Tolerant Multi-Agent Platform**

Zahia Guessoum, Nora Faci and Jean-Pierre Briot

[09:20 – 09:40] **A Layered Architecture for Real-Time Distributed Multi-Agent Systems**

Nadeem Jamali and Shangping Ren

09:45 – 10:30 Technical Session 4

Session Chair – Scott DeLoach (Kansas State University, USA)

[09:45 – 10:05] **From Requirements to Multi-Agent Architecture based on Organisational Concepts**

Lucia Bastos and Jaelson Castro

[10:05 – 10:25] **A Product-Line Requirements Approach to Safe Reuse in Multi-Agent Systems**

Josh Dehlinger and Robyn Lutz

10:30 – 11:00 Break

11:00 – 12:30 Keynote Talk

Invited Speaker – Naftaly Minsky (Rutgers University, USA)

12:30 – 14:00 Lunch

14:00 – 15:30 Discussion Group – Phase 1

Facilitator – Ricardo Choren (IME, Brazil)

15:30 – 16:00 Break

16:00 – 17:30 Discussion Group – Phase 2

17:30 – 17:40 Wrap up