



Workshop on

Issues in Designing Physical Agents for Dynamic Real-Time Environments: World modelling, planning, learning, and communicating

EIGHTEENTH INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE

Acapulco, Mexico

Time: Monday, August 11, 2003, 9:00 – 18:00h

Program:

- 9:00 – 9:15 Introduction
- 9:15 – 9:45 Learning and Planning for Mars Rover Science
Tara Estlin, Rebecca Castano, Robert Anderson, Daniel Gaines, Forest Fisher and Michele Judd
- 9:45 – 10:15 Specifying Multirobot Coordination in ICPGolog - From Simulations towards Real Robots –
Frank Dylla, Alexander Ferrein and Gerhard Lakemeyer
- 10:15 – 10:45 Case-Based Reasoning for Planning and World Modeling in the RoboCup Small Size League
Cynthia Marling, Mark Tomko, Matthew Gillen, David Alexander and David Chelberg
- 10:45 – 11:15 Coffee break
- 11:15 – 11:45 A Real-Time Rover Executive Based On Model-Based Reactive Planning
M. Bernardine Dias, Solange Lemai and Nicola Muscettola
- 11:45 - 12:15 Shared Activity Coordination
Bradley J. Clement and Anthony C. Barrett
- 12:15 – 12:45 Plays as Team Plans for Coordination and Adaptation
Michael Bowling, Brett Browning, Allen Chang and Manuela Veloso
- 12:45 – 13:15 Lunch break
- 13:15 – 13:45 Goal-Converging Behavior Networks and Self-Solving Planning Domains
Bernhard Nebel and Yuliya Babovich
- 13:45 – 14:15 An Approach to Predicting the Location of Moving Objects During On-Road Navigation
Craig Schlenoff, Raj Madhavan and Stephen Balakirsky
- 14.15 – 14:45 On Planning for Multi-Agent Opportunistic Execution
Carmel Domshlak and James H. Lawton
- 14:45 – 15:15 Coffee Break
- 15:15 – 15:45 Intelligent Execution Monitoring in Dynamic Environments
Thorsten Buchheim, Georg Kindermann, Reinhard Lafrenz and Paul Levi
- 15:45 - 16:15 A Dynamic Environment Modelling Framework for Selective Attention
Matthias Fichtner, Axel Großmann and Michael Thielscher
- 16:15 – 16:30 Short break
- 16:30 – 17:00 An Extended Panorama: Efficient Qualitative Spatial Knowledge Representation for Highly Dynamic Environments
Thomas Wagner, Christoph Schlieder and Ubbo Visser
- 17:00 – 17:30 A Humanoid Listens to three simultaneous talkers by Integrating Active Audition and Face Recognition
Kazuhiro Nakadai, Daisuke Matsuura, Hiroshi G. Okunox and Hiroaki Kitano
- 17:30 – 18:00 Discussion