

**HoloMAS 2002: 3rd International Workshop on**

**Industrial Applications of Holonic and Multi-Agent Systems**

**September 2, 2002**

Program:

10.30 - 12.30 **Architectures, Methodologies and Techniques I.**

Introduction to HoloMAS 2002 Workshop

*Vladimir Marik (Czech Republic), Duncan McFarlane (UK), Michal Pechoucek (Czech Republic)*

Preference Based Task Allocation in Holonic Manufacturing

*S. Misbah Deen, Rashid Jayousi (UK)*

Dynamic Multi-Agent Dispatching Control for Flexible Manufacturing Systems

*Yuki Indrayadi, Hadeli, Paul Valckenaers, Hendrik Van Brussel (Belgium)*

Comparing Two Approaches to Modelling Decentralised Manufacturing Control Systems with UML Capsules

*R.W.Brennan (Canada), S.Olsen, M.Fletcher (UK), D.H.Norrie (Canada)*

Agent-based Holonic Manufacturing Control

*Paulo Leitão, Francisco Restivo (Portugal)*

12.30 - 14.00 Lunch

14.00 - 15.30 **Architectures, Methodologies and Techniques II.**

Ontologies for Multi-Agent Systems in Manufacturing Domain

*Marek Obitko, Vladimir Marik (Czech Republic)*

The Holonic Enterprise: Modeling Holarchies as MAS to Enable Global Collaboration

*Mihaela Ulieru (Canada)*

A Study of the HMS Operational Architecture

*Thomas Neligwa, S. Misbah Deen (UK)*

Using Dynamically Created Decision-Making Organizations (Holarchies) to Plan, Commit, and Execute Control Tasks in a Chilled Water System

*Francisco Maturana (USA), Pavel Tichy, Petr Slechta (Czech Republic), Raymond Staron (USA)*

15.30 - 16.00 Coffee Break

16.00 - 18.00 **Applications**

Devising Best Practices for Customization of a Multi-agent Production Planning Technology:  
Experiences from the ExPlanTech Project

*Philippos Koutsakas, Adamantios Koumpis (Greece)*

Extra-Enterprise Production Planning in ExPlanTech System

*Jiri Vokrinek, Ales Riha, Michal Pechoucek, Vladimir Marik (Czech Republic)*

Designing an Integrated Holonic Scheduler with JACK

*Martyn Fletcher (UK)*

Implementing a Contract-based Multi-agent Approach for Shop Floor Agility

*Jose Barata, L.M.Camarinha-Matos (Portugal)*

The MaBE Project: An Agent-Based Environment for Business Networks

*Alexander Hämmerle, Georg Weichhart, Kurt Fessl (Austria)*