

HoloMAS 2007

3rd International Conference on Industrial Applications of Holonic and Multi-Agent Systems

September 3-5, 2007, Regensburg, Germany

<http://cyber.felk.cvut.cz/HoloMAS/2007/>

in conjunction with **DEXA 2007** events

ABOUT THE CONFERENCE

Holonic and multi-agent systems provide a novel paradigm for managing, modelling and supporting complex systems. This concept has proved to be successful in number of industrial domains such as manufacturing, real-time control, supply chain management, resource allocation and production planning/scheduling, air traffic.

The conference aims to bring together researchers active in the area of holonic and multi-agent systems together with key engineers and industrial decision makers to share their views and experience in **design, development** and **applying** holonic and multi-agent systems for industrial problems.

SUGGESTED TOPICS (but not limited to):

- **Theoretical backgrounds** behind holonic/agent concepts
- **Industrial applications** of holonic and multi-agent systems (case-studies are specially appreciated)
- Specification of holonic and agent-based **architectures and design methodologies**
- Differences and similarities between the concept of **holons and agents**
- Communication principles and **standards**
- Virtual organisations & holonic factories - reconfigurable factories
- Agent-based **system integration**
- Modeling and **simulation tools**
- Reconfiguration tasks, coalition formation, knowledge ontologies
- Novel application areas (health-care, environmental protection, government, humanitarian missions)
- Visions and **future trends** of holonic and multi-agent systems
- Standardization issues, **security issues**, industrial needs
- Obstacles and **barriers to industrial applicability**

PAPER SUBMISSION DETAILS

Authors are invited to submit research contributions or critiques of practical experience. Papers (in English) should **not exceed 10 pages in Springer Verlag format**. Authors are requested to submit their papers electronically to the conference web site. All accepted conference papers will be published in the conference proceedings in "Lecture Notes in Computer Science" (LNCS) series by Springer Verlag.

IMPORTANT DATES

1. Submission deadline: February 28,2007
2. Acceptance notice: April 15, 2007
3. Camera-ready copies: May 15, 2007

CONFERENCE CO-CHAIRS:

Vladimir Marik	Czech Technical University in Prague/Rockwell Automation, CZ
Armando W. Colombo	Schneider Electric, D
Valeriy Vyatkin	University of Auckland, NZ

PROGRAM COMMITTEE:

Jose Barata	Universidade Nova de Lisboa, P
Vicente Botti	Universidad Politecnica de Valencia, SP
Jeff Bradshaw	University of West Florida, USA
Robert W. Brennan	University of Calgary, Canada
Monique Calisti	Whitestein Technologies, CH
Luis Camarinha-Matos	Universidade Nova de Lisboa, P
Kurt Fassl	Profactor, A
Klaus Fischer	DFKI GmbH, D
Martyn Fletcher	UK
Motohichi Funabashi	Hitachi, JPN
William Gruver	Simon Fraser University, CAN
Kenneth Hall	Rockwell Automation, USA
Toshiya Kaihara	Kobe University, JPN
Matthias Klusch	DFKI GmbH, D
Dilip Kotak	National Research Council of Canada, CAN
Jose L. M. Lastra	Tampere University of Technology, FIN
Francisco Maturana	Rockwell Automation, USA
Duncan McFarlane	Cambridge University, UK
Gerard Morel	CRAN, F
Michal Pechoucek	Czech Technical University, CZ
Gregory Provan	Cork College, Ireland
Milan Rollo	Czech Technical University, CZ
Leonid Sheremetov	Mexican Oil Institute, MEX
Alexander Smirnov	SPIIRAS, RUS
Thomas Strasser	Profactor, A
Shinsuke Tamura	Fukui University, JPN
Ambalavanar Tharumarajah	Buddy Co.Ltd, AUS
Paul Valckenaers	Catholic University Leuven, B
Hendrik Van Brussel	Katholieke Universiteit Leuven, B
Tomas Vlcek	Czech Technical University, CZ
Pavel Vrba	Rockwell Automation, CZ
Alois Zoitl	Vienna University of Technology, A

FOR MORE INFORMATION:

Prof. Vladimir Marik
Czech Technical University in Prague
Faculty of Electrical Engineering
Department of Cybernetics (K13133)
Technicka 2, 166 27, Prague 6
Czech Republic

e-mail: holomas@labe.felk.cvut.cz
Fax: +(420 2) 2492 3677

<http://gerstner.felk.cvut.cz/HoloMAS/2007/>
<http://www.dexa.org/>