

International Workshop on Massively Multi-Agent Systems

CALL FOR PAPERS

December 10-11, 2004

Kyoto Research Park, Kyoto, Japan

<http://www.digitalcity.jst.go.jp/conferences/2004/workshop/>

We are now in the era of ubiquitous computing and networking: millions of electronic devices with computing facilities are connected with each other in ad hoc ways, and are required to behave coherently. Massively multi-agent systems can be a major design paradigm or an implementation method for ubiquitous computing and networking. As infrastructure of massively multiagent systems, technologies such as grid computing together with semantic annotation can be combined with agent technologies. A new system design approach, society-centered design, may be realized by embedding participatory technologies in human society. Applications include large-scale navigation, scientific or social simulations, e-home, e-offices, e-cities and e-science.

The aim of this workshop is to encourage existing activity in this field, and to bring together computer science, information science, and social science participants concerned with massively multiagent systems and applications. The workshop will consist of invited talks, oral and poster presentations, and panels. Participation in the workshop is by invitation only, and is limited to around 40 professionals who have made significant contributions to the topics of the meeting. People wishing to be invited are requested to submit first an abstract (to signal your interest and contribution) and then a full paper (for review) to the workshop. All accepted papers will be published as a volume from Springer-Verlag after the workshop.

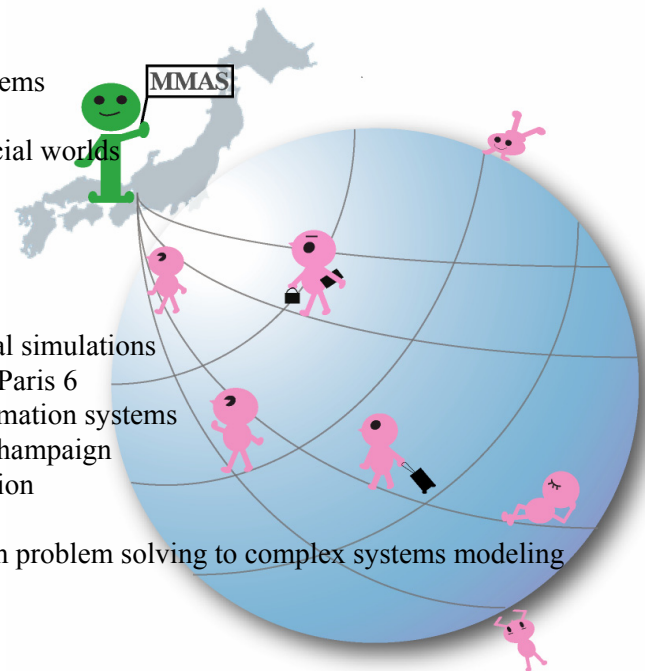
We would prefer not to rigorously limit topics under the general category of the workshop. Nonetheless, some candidate topics are listed below:

- Massively multi-agent infrastructure
- Massively multi-sensor systems
- Self-organization technologies
- Design and analysis of massively multi-agent systems
- Large-scale participatory technologies
- Integrating massively multi-agent systems and social worlds
- Application of massively multi-agent systems
- Massively multi-agent simulation
- Mega-scale navigation

We have the following invited talks at the workshop.

- Participatory design methods for multi-agent social simulations
Alexis Drogoul, Laboratoire d'informatique de Paris 6
- Behavioral models of massively multi-agent information systems
Les Gasser, University of Illinois at Urbana-Champaign
- Scaling up multi-agent systems by technology fusion
David Kinny, Agentis Software
- Autonomy oriented computing with MMAS: From problem solving to complex systems modeling
Jiming Liu, Hong Kong Baptist University
- Mobile agents for ambient intelligence
Ichiro Satoh, National Institute of Informatics
- Challenges in building very large teams
Paul Scerri, Robotics Institute, Carnegie Mellon University
- Agent server technology for managing millions of agents
Gaku Yamamoto, IBM Research, Tokyo Research Lab.

The workshop attendees are encouraged to attend the collocated JST international symposiums, which will be held on December 9th: <http://www.digitalcity.jst.go.jp/conferences/2004/symposium/>.



Submit your abstract (ascii text, 300 words or less) and full paper (pdf) written in English, by e-mail to workshop@digitalcity.jst.go.jp. Full papers should be submitted camera-ready in Springer Lecture Note Series (LNCS/LNAI) format. Please follow the instructions for authors available at the Springer Web page: <http://www.springer.de/comp/lncs/authors.html>. Submitted full papers should be 12 to 15 pages long in the LNCS/LNAI format. Surface mail address, e-mail addresses should be included for all contributing authors.

Deadline for abstract: **August 15th, 2004**

Deadline for full paper: **September 1st, 2004**

Author notification: **October 1st, 2004**

Deadline for camera ready paper: **November 1st, 2004**

Deadline for camera ready postproceedings paper: **February 1st, 2005**

We provide limited financial support to students and other researchers who are co-authors of accepted papers to give their presentation at the workshop. In order to apply for travel grant please send the following information.

Detailed address and affiliation

Title of accepted paper

Estimated amount of travel expenses in total

General Chair:

Koiti Hasida (Cyber Assist Research Center, AIST)

Program Co-Chairs:

Toru Ishida (Department of Social Informatics, Kyoto University)

Les Gasser (University of Illinois at Urbana-Champaign)

Hideyuki Nakashima (Future University Hakodate)

Organization Co-Chairs:

Hideyuki Nakanishi (Department of Social Informatics, Kyoto University)

Itsuki Noda (Cyber Assist Research Center, AIST)

Program Committee Members:

Francois Bousquet (CIRAD)

Alexis Drogoul (Paris 6)

Nick Gibbins (University of Southampton)

Nadeem Jamali (University of Saskatchewan)

David Kinny (Agentis Software)

Satoshi Kurihara (NTT)

Kazuhiro Kuwabara (ATR)

Jiming Liu (Hong Kong Baptist University)

Ei-ichi Osawa (Future University Hakodate)

Van Parunak (ALTARUM)

Larry Rudolph (MIT)

Ichiro Satoh (National Institute of Informatics)

Toshiharu Sugawara (NTT)

Millind Tambe (University of Southern California)

Gaku Yamamoto (IBM Research)

Dan Corkill (University of Massachusetts)

Satoru Fujita (NEC Corporation)

Hiroshi Ishiguro (Osaka University)

WooYoung Kim (University of Illinois)

Yasuhiko Kitamura (Kwansei Gakuin University)

Koichi Kurumatani (AIST)

Victor Lesser (University of Massachusetts)

Azuma Ohuchi (Hokkaido University)

Akihiko Ohsuga (TOSHIBA Corporation)

Jeffrey S. Rosenschein (Hebrew University)

Norman M. Sadeh (Carnegie Mellon University)

Paul Scerri (Carnegie Mellon University)

Satoshi Tadokoro (Kobe University)

Walt Truszkowski (NASA)

Makoto Yokoo (Kyushu University)

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Center of Excellence on Knowledge Society, Kyoto University

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Supported by

Japan Science and Technology Agency (JST)

JSSST Special Interest Group for Multi-Agent and Cooperative Computation

IEICE Special Interest Group for Artificial Intelligence and Knowledge Processing

IPSJ Special Interest Group for Ubiquitous Computing Systems

Support Center for Advanced Telecommunications Technology Research

The Obayashi Foundation

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