

# MATES 08

Call For Papers, Sixth German Conference on Multi-Agent System Technologies  
September 23–26, 2008, Kaiserslautern, Germany

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## AIMS & SCOPE

The German Conference on Multi-Agent system Technologies (MATES) provides an interdisciplinary forum for researchers, users, and developers to present and discuss latest advances in research work as well as prototyped or fielded systems of intelligent agents and multi-agent systems. The conference covers the whole range of agent- and multi-agent technologies and aims to promote its theory and applications.

For the sixth time, the German special interest group on Distributed Artificial Intelligence organizes this international conference in cooperation with the steering committee of MATES and thereby continues this very successful track of events. MATES 2008 will be co-located with the 31st German Conference on Artificial Intelligence (KI 2008) and will take place from September 23 to 26, 2008 in Kaiserslautern. The participants of MATES 2008 will also have full access to the concurrently running program of the KI 2008 conference.

## Topics of Interest

Topics of interest of MATES 2008 include all aspects of agent-oriented computing and agent technologies. Moreover, the principles and methods of agent-oriented computing in the context of service-oriented architectures (SOA) are of interest for the MATES community. Furthermore, Ambient Intelligence (AmI) is a new emerging area for the application for agent-oriented computing, including, for example, agent-based mobile environments or sensor networks.

We solicit research papers that report on recent advances in the area of intelligent agents and multi-agent systems in general. Also papers reporting on the successful application of agent technologies in any kind of domain are very welcome. Additionally, we encourage the submission of elaborated vision and challenge papers that discuss mid-term and long-term directions for research and application.

Topics of interest for MATES 2008 include, but are not limited to:

- Adaptive agents and multi-agent learning
- Advanced theories of collaboration: Modelling and formation of teams, coalitions, groups, and organizations
- Agents and autonomic computing
- Agent and multi-agent architectures
- Agents and peer-to-peer computing
- Agents and pervasive computing
- Agents for Ambient Intelligence
- Agent-based service discovery, matchmaking, brokering, and composition
- Agent communication languages
- Agents for e-business and e-government
- Agent technologies in the context of service-oriented computing and architectures
- Agent to non-agent interoperability
- Agents in novel applications
- Application of agent-technologies in industrial practice
- Artificial social systems: Conventions, norms, institutions; trust and reputation
- Autonomous robots and robot teams
- Commitment, delegation, responsibility, and obligations in artificial and hybrid societies
- Complex systems and their management
- Coordination, negotiation, argumentation, and conflict resolution
- Deployed agent-based business applications
- Hybrid human and agent societies
- User modelling and interface agents
- Embodied conversational actors and believable agents
- Mobile agents
- Model-driven design of multi-agent systems
- Multi-agent planning and scheduling
- Multi-agent platforms and tools
- Multi-agent (social) simulation and (cognitive) modelling with agents
- Practical aspects of programming agent systems: Robustness, fault tolerance, scalability and performance measurement

- Standards for agents and multi-agent systems

## Doctoral Mentoring

MATES 2008 will include a doctoral mentoring program, aimed at PhD students at advanced stages of their research. This program will provide an opportunity for students to interact closely with established researchers in their fields, to receive feedback on their work and to get advice on managing their careers.

## Submissions

Papers must be submitted in Springer LNCS Format and should not exceed 12 pages. The proceedings of MATES 2008 will appear in the Springer-Verlag series, "Lecture Notes in Artificial Intelligence" (LNAI).

## Awards

MATES will issue a „MATES 2008 Best Paper Award“.

## Important Dates

Submission Deadline:	11.4.2008
Notification of Acceptance:	30.5.2008
Camera Ready Copy:	27.6.2008
Conference Date:	23.-26.9.2008

### Program Co-Chairs:

Ralph Bergmann (U Trier, Germany)  
Gabriele Lindemann (HU Berlin, Germany)

### General Co-Chairs:

Stefan Kirn (U Hohenheim, Germany)  
Michal Pechoucek (CTU Prag, CZ)

## Contacts

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