

6th Middleware Doctoral Symposium (MDS2009)

Co-located with ACM/IFIP/USENIX 10th International Middleware Conference
(Middleware 2009)

November 30, Urbana Campaign, Illinois, USA

<http://middleware2009.cs.uiuc.edu/events/mds2009/>

CALL FOR PAPERS

Following the success of the past symposiums in this series, MDS2009 aims at providing doctoral students with opportunities to present their work and obtain guidance from mentors as well as to provide contact to other students at a similar stage in their careers. The mentors are experienced researchers from either academia or industry. The goal of the symposium is to expose students to helpful criticism on their current work and suggestions on possible future directions and focus. We believe that a forum like this will allow doctoral students to interact with experts in the middleware community, hence providing an exciting environment in which to inspire next-generation researchers to contribute to the development of middleware technologies.

Topics of interest to this symposium include, but are not limited to the following:

- **Platforms and architectures:**
 - Middleware for Web services & Web-service composition
 - Middleware for cluster & grid computing
 - Peer-to-peer middleware solutions
 - Event-based, publish/subscribe & message-oriented middleware
 - Communication protocols & architectures
 - Middleware for pervasive/ubiquitous & mobile computing
 - Middleware for embedded systems & sensor networks
 - Middleware for multimedia applications
 - Service-oriented architectures
 - Reconfigurable, adaptable & reflective middleware approaches
- **Systems issues:**
 - Reliability, fault tolerance & QoS
 - Scalability of middleware: replication & caching
 - Systems management, including solutions for autonomic & self-managing middleware
 - Middleware feedback control solutions for self-regulation
 - Real-time solutions for middleware platforms
 - Information assurance & security
 - Evaluation techniques for middleware solutions
 - Middleware solutions for (large scale) distributed databases
- **Design principles and tools:**
 - Formal methods & tools for designing, verifying & evaluating middleware
 - Model-driven architectures
 - Software engineering for middleware
 - Engineering principles & approaches for middleware
 - Novel development paradigms, APIs & languages
 - Existing paradigms revisited: object models, aspect orientation, etc.
 - On-the-fly management & configuration of middleware

Submission guidelines. Authors should be advanced enough in their doctoral studies to have a specific research proposal and some preliminary results with enough time remaining to benefit from the symposium experience. This would typically, but not exclusively, be students who are approximately one/two years from thesis completion. Each paper should clearly explain (1) the research problem and its significance, (2) the related work and its limitations, (3) the research approach (algorithms, prototypes, empirical studies, etc.), (4) preliminary research findings, and (5) plans for future research. Submitted papers must be original work in English, must not exceed 6 pages, must strictly follow the ACM conference proceedings format, and must be submitted in PDF through the symposium's web site (<http://middleware2009.cs.uiuc.edu/events/mds2009/>). Accepted papers will be published in the Middleware 2009 conference companion CD and the ACM Digital Library.

Important dates

- Paper submission deadline: **August 3, 2009**
- Notification of acceptance: **September 15, 2009**
- Camera-ready version: **October 1, 2009**

Organizers

- **Symposium chair:** Peter Triantafillou, University of Patras, Greece (peter@ceid.upatras.gr)
- **Technical program committee:**
 - **Gustavo Alonso**, ETH, Switzerland
 - **Indranil Gupta**, UIUC, USA
 - **Arno Jacobsen**, University of Toronto, Canada
 - **Bettina Kemme**, McGill University, Canada
 - **Anne-Marie Kermarrec**, INRIA, France
 - **Nikos Ntarmos**, University of Ioannina, Greece
 - **Peter Pietzuch**, Imperial College, UK
 - **Evi Pitoura**, University of Ioannina, Greece
 - **Ant Rowstron**, Microsoft Research, UK
 - **Karsten Schwan**, Georgia Tech, USA
 - **Prashant Shenoy**, UMass Amherst, USA
 - **Nalini Venkatasubramanian**, UC Irvine, USA
 - **Spyros Voulgaris**, Vrije University, Holland