

Middleware 2009

ACM/IFIP/USENIX 10th International Middleware Conference

November 30 – December 4, 2009

Urbana – Champaign, Illinois, USA

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

CALL FOR DEMONSTRATIONS

The Middleware conference is a forum for the discussion of important innovations and recent advances in the design, construction and uses of middleware. Middleware is distributed-systems software that resides between the applications and the underlying operating systems, network protocol stacks, and hardware. Its primary role is to functionally bridge the gap between application programs and the lower-level hardware and software infrastructure in order to coordinate how application components are connected and how they interoperate.

Following the success of past conferences in this series, middleware will have a demonstrators track where research and development projects will have an opportunity to be shown and demonstrated in public. The demonstrations will have their own sessions to ensure attendance (Middleware is planned as a single track conference). We are interested in demonstrators of systems, platforms, and applications directly related to Middleware.

Platforms and Architectures:

- * Middleware for Web services and Web-service composition
- * Middleware for cluster and grid computing
- * Peer-to-peer middleware solutions
- * Event-based, publish/subscribe, and message-oriented middleware
- * Communication protocols and architectures
- * Middleware for ubiquitous and mobile computing
- * Middleware for embedded systems and sensor networks
- * Middleware for next generation telecommunication platforms
- * Semantic middleware
- * Service-oriented architectures
- * Standard middleware architectures
- * Reconfigurable, adaptable, and reflective middleware approaches

Systems issues:

- * Advanced middleware support for high confidence dynamic integrated systems
- * Reliability, fault tolerance, and quality-of-service in general
- * Scalability of middleware: replication and caching
- * Systems management, including solutions for autonomic and self-managing middleware
- * Middleware feedback control solutions for self-regulation
- * Real-time solutions for middleware platforms
- * Information assurance and security
- * Evaluation techniques for middleware solutions
- * Middleware support for multimedia streaming
- * Middleware solutions for (large scale) distributed databases

Design principles and tools:

- * Formal methods and tools for designing, verifying, and evaluating middleware
- * Model-driven architectures
- * Software engineering for middleware
- * Engineering principles and approaches for middleware
- * Novel development paradigms, APIs, and languages
- * Existing paradigms revisited: object models, aspect orientation, etc.
- * On-the-fly management and configuration of middleware

The scope of the conference is the design, implementation, deployment, and evaluation of distributed system platforms and architectures for future computing and communication environments. Highlights of the conference will include a high quality technical program, invited speakers, an industrial track, poster and demo presentations, a doctoral symposium, and workshops.

Submission Details.

Submissions describing the demonstrators should be at most 4 pages long, using the ACM proceedings format, and include a precise description of what will be demonstrated and how. The submissions should also indicate the equipment that will be used for the demo and any special requirement in terms of space, network access, projectors, etc.

Deadline for submissions is **September 15**. Please send the demo proposal as a PDF document to Reza Farivar (farivar2@illinois.edu) indicating "Middleware Demo Proposal" in the subject line.