

# Middleware 2008

ACM/IFIP/USENIX 9th International  
Middleware Conference

December 1-5, 2008  
Leuven, Belgium

[middleware2008.cs.kuleuven.be](http://middleware2008.cs.kuleuven.be)

## CALL FOR PAPERS

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, the 9th International Middleware Conference will be the premier event for middleware research and

technology in 2008. 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.

Submissions on a diversity of topics are sought, particularly ones that identify new research directions. The topics of the conference include, but are not limited to

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### 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 conference also strongly encourages submission of industry-focused and use case studies; full papers should be submitted to the main program, where they will be reviewed using appropriate criteria (e.g. emphasizing experience and system evolution), and accepted papers will be published in the main conference proceedings. Additionally, short industry-focused papers may be submitted to a special industrial track; accepted short papers will be presented at the conference and published in the ACM Digital Library. Details on the industrial track will be available shortly. Note that submissions to the main program may indicate a willingness to be referred to the industrial track if a paper is not accepted to the main program.

### Important Dates: ( \*\* Note that deadlines will not be extended \*\* )

- 23 April 2008 Abstract registration (hard deadline)
- 30 April 2008 Paper submission (hard deadline)
- 16 July 2008 Acceptance notification
- 31 August 2008 Camera ready copy due
- 1 December 2008 Conference begins

### Proceedings:

The proceedings of Middleware 2008 will be published as a Springer-Verlag volume in the Lecture Notes in Computer Science Series.

### Submission Guidelines:

Papers must not exceed 20 pages, including abstract, all figures, all tables, and references. Papers should include a short abstract and up to 6 keywords. Submitted papers should follow the formatting instructions of the Springer LNCS Style (for style and formatting guidelines Please check the Information for Authors page at Springer at <http://www.springer.de/comp/lncs/authors.html>).

Submitted papers may not be submitted for conference publication, journal publication, or be under review for any other conference or journal. For any questions regarding this matter, please contact the program chairs. Submissions will be handled via the conference management system that will be announced later.

### Organization:

- Conference Chairs:** Wouter Joosen (K.U.Leuven, Belgium)  
Yolande Berbers (K.U.Leuven, Belgium)  
Valerie Issarny (INRIA, France)  
Rick Schantz (BBN Technologies, USA)
- PC Chairs:** Frank Eliassen (University of Oslo, Norway)  
Hans-Arno Jacobsen (University of Toronto, Canada)

### Industry Chair:

- Work In Progress Chair:**  
**Publicity Chair:**

- Fred Dougliis (IBM, USA)  
Cecilia Mascolo (University of Cambridge, UK)  
Michael Atighetchi (BBN Technologies, USA)  
Sonia Ben Mokhtar (UCL, UK)  
Bert Lagaisse (K.U.Leuven, Belgium)  
Sam Michiels (K.U.Leuven, Belgium)  
Davy Preuveneers (K.U.Leuven, Belgium)

- Posters and Demos Chair:**  
**Doctoral Symposium Chair:**  
**Local Arrangements Chair:**

### Programme Committee:

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