



Call for Papers – Middleware 2014

The 15th ACM/IFIP/USENIX Conference

December 8 – 12, 2014, Bordeaux, France

<http://2014.middleware-conference.org/>

The annual ACM/IFIP/USENIX Middleware conference is a major forum for the discussion of innovations and recent advances in the design, construction and use of middleware systems. The scope of the conference is the design, implementation, deployment, and evaluation of distributed system platforms and architectures for computing, storage, and communication environments. Highlights of the conference will include a high quality single-track technical program, invited speakers, an industrial track, panel discussions involving academic and industry leaders, poster and demonstration presentations, a doctoral symposium, and workshops.

Middleware 2014 seeks papers on a diversity of topics, particularly those identifying new research directions. The topics of the conference include, but are not limited to:

Middleware Platforms and Usage Models

- Middleware for emerging cloud computing,
- Middleware for data-intensive computing (Big Data)
- Middleware for Internet applications and multimedia
- Event-based, publish/subscribe, and peer-to-peer solutions
- Middleware for mobile devices and ubiquitous, computing
- Reconfigurable, adaptable, and reflective approaches

Systems Issues for Middleware

- Reliability and fault-tolerance
- Consistency, availability, and replication
- Energy- and power-aware techniques
- Virtualization, auto-scaling, provisioning, and scheduling
- Real-time solutions and quality of service
- Scalability and performance

Design Principles and Tools

- Programming frameworks, parallel programming, and design methodologies for middleware
- Formal methods, testing, diagnosis, and distributed debugging of middleware
- Methodologies and tools for middleware design, implementation, verification, and evaluation
- Retrospective reviews of middleware paradigms, e.g., object models, aspect orientation, etc.

Original research papers of **three types** are sought on the above topics.

- **Research Papers**
- **Experimentation and Deployment Papers**
- **Big-Ideas Papers**

The Middleware 2014 conference proceedings will be published in the **ACM Digital Library**. Papers should not exceed **12 pages** in length, including the abstract, all figures, tables, and references. Submitted papers should adhere to the formatting instructions of **the ACM Style** (<http://www.acm.org/sigs/publications/proceedings-templates>), and should clearly indicate their type on their first page. Please note that submissions are single-blind: authors' names should appear. (Note that the process for publication in the Middleware companion proceedings will be explained in the relevant, specific CFP, e.g. Industry short papers, Doctoral workshop, etc.). Papers should be submitted to our EasyChair page: <https://www.easychair.org/conferences/?conf=middleware2014>

Important dates

Abstract Submission	May 16, 2014
Paper Submission	May 23, 2014
Paper Rebuttal	July 21-25, 2014
Notification of Acceptance	August 8, 2014
Camera ready	September 8, 2014

General Chair

Laurent Réveillère, LaBRI, University of Bordeaux, France

Program Committee co-Chairs

Lucy Cherkasova, HP Labs, USA
François Taïani, Université de Rennes 1 / IRISA, France