



**Call for Papers – Middleware 2015**  
**The 16<sup>th</sup> ACM/IFIP/USENIX Conference**  
<http://2015.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 2015 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 mobile devices and services
- Middleware for data-intensive computing (Big Data)
- Middleware for Internet applications and multimedia
- Middleware for the Internet of Things
- Middleware for ubiquitous and pervasive computing
- Event-based, publish/subscribe, and peer-to-peer solutions
- 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 Programming Support

- 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 2015 conference proceedings will be published in the **ACM Digital Library**. Accepted submissions will be available on the ACM digital library at least one week before the conference. 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/signs/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 CFPs (e.g., Industry short papers, Doctoral workshop).

Papers should be submitted to our hotCRP page: <https://mw15-hotcrp.fbk.eu/>

### Important dates

<b>Abstract Submission</b>	<b>May 15, 2015</b>
<b>Paper Submission</b>	<b>May 20, 2015</b>
Notification of Acceptance	August 3, 2015
Camera ready	September 7, 2015

### General co-Chairs

Rodger Lea, UBC, Canada  
Sathish Gopalakrishnan, UBC, Canada

### Program Committee co-Chairs

Amy L. Murphy, FBK-IRST, Italy  
Eli Tilevich, Virginia Tech, USA