



The 17th ACM/IFIP/USENIX Middleware Conference December 12 – 16, 2016, Trento, Italy <http://2016.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, poster and demonstration presentations, a doctoral symposium, and workshops.

Topics: The topics of the conference include, but are not limited to:

Platforms and Usage Models of Middleware for:

- Emerging cloud computing platforms, 5G, NFV
- Data-intensive computing (Big Data) and data analytics
- IoT, Cyber Physical Systems, Smart Cities
- Mobile devices and services
- Ubiquitous and pervasive computing
- Internet applications and multimedia

Systems Issues for Middleware

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

Design Principles and Programming Support

- Event-based, pub/sub, and P2P solutions
- Reconfigurable, adaptable, and reflective approaches
- Novel programming abstractions and paradigms for 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** : Original research papers are sought on the above topics.
- Experimentation and Deployment Papers** : These papers describe complete systems, platforms, and papers with comprehensive experimental evaluations of alternative designs and solutions to well-known problems. The emphasis during the evaluation of these papers will be less on the novelty and more on the demonstrated usefulness and potential impact of the contributions, the extensive experimentation involved, and the quality and weight of the lessons learned.
- Big-Ideas Papers** : These are papers that have the potential for opening up new research directions. For such papers, the potential to motivate new research is more important than full experimental evaluation, though some preliminary evidence of the effectiveness of the approach or idea is important.

The Middleware 2016 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. Submitted papers may have at most 12 pages of technical content, including text, figures, appendices, etc. In addition to the 12 pages allowed for technical content, a submission may include any number of additional pages of bibliographic references. Submitted papers should adhere to the formatting instructions of the ACM Style that you can find on the submission page and should clearly indicate their type on their first page. Please note that submissions are single-blind: authors' names should appear.

AUTHORS TAKE NOTE: The official publication date will be the date the proceedings are made available in the ACM Digital Library. This date may be up to two weeks prior to the first day of the Middleware conference. The official publication date affects the deadline for any patent filings related to published work.

The Middleware conference adopts a 2-phase review process in which the authors, after receiving a first set of reviews, have the opportunity to respond with a rebuttal to the reviewers' comments. This rebuttal is then visible to the additional reviewers in the second phase, and in general is taken into account into the paper selection process.

Important dates

Abstract Submission	May 13 (Friday) *Firm Deadline*
Paper Submission	May 20 (Friday) *Firm Deadline*
Author Rebuttal	June 27 - June 29 (Monday-Wednesday)
Notification Due	Aug 15 (Monday)
Final Version Due	Sep 7, 2016 (To be Confirmed)

Organizers:**General Chair:**

Gian Pietro Picco, University of Trento, Italy

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