



## CALL FOR PAPERS

### IMPORTANT DATES

Abstract: March 30, 2014

Paper: April 6, 2014

Notification: May 28, 2014

Camera-ready copy: June 18, 2014

Early registration: July 31, 2014

### CONFERENCE CHAIRS

#### PROGRAM CHAIR

**Paris Avgeriou**

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#### GENERAL CHAIR

**Uwe Zdun**

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### SCOPE

The European Conference on Software Architecture (ECSA) is the premier European software architecture event, providing researchers, practitioners, and educators with a platform to present and discuss the most recent, innovative and significant findings and experiences in the field of software architecture research and practice. In 2014, the conference will feature a research track, an industrial track, workshops, tutorials, doctoral symposium, tool demonstrations, keynotes, panels and poster presentations.

### TOPICS

For the research track, the programme committee of ECSA 2014 seeks submissions of papers describing basic and applied research, novel applications and experience reports on all topics related to software architectures including, but not limited to:

- Linking requirements engineering and software architectures,
- architecture refactoring and re-engineering,
- reverse engineering of architectures,
- architecture conformance, run-time monitoring,
- aspect-oriented software architectures,
- Service-Oriented Architectures (SOA) and Web services,
- architecture-based evolution,
- architectures for ultra-large scale, long-lived systems and systems-of-systems

- ontology-based approaches for component and architecture description,
- management of architectural knowledge, decisions, and design rationale,
- architecture-centric process models and frameworks,
- architecture-centric model driven engineering,
- software tools and environments for architecture-centric software engineering,
- architectural concerns of autonomic systems,
- component-based models, middleware, component-based deployment,
- industrial applications, case studies, best practices and experience reports,
- empirical studies, systematic literature reviews and mapping studies in software architecture,
- architecture description languages and metamodels,
- architectural patterns, styles and tactics,
- reference architectures,
- architecture viewpoints,
- architecture analysis, validation and verification,
- architecture transformation and refinement,
- architecture-based synthesis, code generation,
- architecture-based support for reconfigurable, adaptive or mobile applications.

### SUBMISSION

ECSA 2014 seeks two types of papers:

- **Full papers** (max. 16 pages in LNCS style). These can be either: a) Research Papers which describe novel contributions to software architecture research, have a sound scientific basis and have been thoroughly validated; b) Experience Reports which describe a substantial experience from software architecting industrial practice (e.g. applying a tool, technique), have a technological/organizational basis which has been derived from practice, and involve participants other than just the authors.
- **Short papers** (max. 8 pages in LNCS style). Similarly to full papers these can be either Emerging Research papers

which present promising preliminary results (without full validation) or short Experience Reports.

Research papers (both full and short) should be classified in *at least one* of the following categories:

- **Analytical**: the main contribution relies on new algorithms or mathematical theory (e.g. model transformations).
- **Empirical**: the main contribution is the empirical study of a software architecture technology or phenomenon. (e.g. controlled experiments, case studies, surveys of architects)
- **Technological**: the main contribution is of a technical nature (e.g. ADLs, tools)
- **Methodological**: the main contribution is a coherent system of broad principles and practices (not mathematical) to interpret or solve an architecting problem (e.g. new architecture design or evaluation methods)
- **Perspectives**: the main contribution is a novel perspective on the field as a whole, or part thereof (e.g. assessments of the current state of the art and achievements, systematic literature reviews)

All accepted papers will appear in the conference proceedings (Springer LNCS). Submissions of papers will be made through EasyChair.



### VENUE

ECSA 2014 will take place at the University of Vienna, the oldest university in the German-speaking world and one of the largest in Central Europe. Vienna is the capital and largest city of Austria. Each year since 2005, Vienna has been the world's number one destination for international congresses and conventions. Vienna attracts about five million tourists a year. The Historic centre of Vienna is rich in architectural ensembles, including Baroque castles and gardens, as well as the late-19th-century Ringstrasse lined with grand buildings, monuments and parks.