



## Preliminary Call for Papers

### 7<sup>th</sup> European Conference on Software Architecture – ECSA 2013

July 1-5, 2013, Montpellier, France

<http://www.lirmm.fr/ecsa13/>

#### Scope

The European Conference on Software Architecture (ECSA) is the premier European conference 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.

#### Venue

The 7<sup>th</sup> ECSA will be held in Montpellier, France, co-located with ECOOP 2013 and ECMFA 2013 in a unique gathering in software related trends – the joint organization of these key conferences provides a unique opportunity to gather practitioners and researchers on software architecture, modelling and development.

#### Theme

ECSA 2013 seeks submissions of original papers describing basic and applied research, novel applications, research challenges and experience reports on all topics related to software architecture, including, but not limited to:

- architecture description, modelling, languages,
- reference architectures, architectural styles, patterns,
- architectural decisions, architectural knowledge,
- architecture analysis, validation, verification,
- architecture transformation, refinement, implementation,
- architecture evolution, variability,
- architecture reengineering, recovery,
- architecture for reconfigurable, adaptive systems,
- architecture conformance, run-time monitoring, autonomic management,
- architecture for systems-of-systems, complex systems, critical systems, networked systems,
- software tools/environments for software architecture,
- processes, methods, techniques and tools for architecture-centric software engineering,
- architecture-centric model driven engineering,
- requirements engineering and software architectures,
- quality attributes and extra-functional properties for software architecture,

- service-oriented architecture, component-based architecture, service discovery, composition, orchestration, choreography,
- technology and frameworks supporting software architecture,
- industrial applications, case studies, best practices and experience reports.

#### Submissions

ECSA 2013 seeks four types of submissions to foster the active participation of researchers and practitioners:

- **Full research papers** and **Experience papers** (max. 16 pages in LNCS style) which describe novel contributions to software architecture research (submissions should cover work that has a sound scientific/technological basis and has been validated).
- **Emerging research papers** (max. 8 pages in LNCS style) which present promising preliminary results from work-in-progress in a topic of software architecture research (submissions should cover work that has a sound basis, but perhaps has not been validated in full).
- **Research challenge papers** (max. 4 pages in LNCS style) which present significant research challenges in theory or practice of software architecture (submissions should clearly present the research questions and their rationale).

All submitted papers will undergo a rigorous peer review process, and be selected based on originality, quality, soundness and relevance. All accepted papers will appear in the conference proceedings published by Springer-Verlag as part of the Lecture Notes in Computer Science (LNCS) series. The submissions should be prepared using the Springer LNCS style.

**Deadline for paper submission: 27 January 2013**

#### Conference Organization

##### General Chair:

- ◆ Marianne Huchard, LIRMM – Univ. of Montpellier

##### Conference Chair:

- ◆ Flavio Oquendo, IRISA – European Univ. of Brittany

##### Program Committee Chair:

- ◆ Khalil Drira, LAAS-CNRS – Univ. of Toulouse



<http://www.lirmm.fr/ec-montpellier-2013/>

### Organisation Committee

#### General Chair

Marianne Huchard, Univ. de Montpellier, France

#### Organisation Chairs

Roland Ducournau and Christophe Dony,  
Univ. de Montpellier, France

#### Workshop Chairs

Stéphane Ducasse, INRIA Lille, France  
Damien Cassou, INRIA Paris, France  
Olivier Zendra, INRIA Nancy, France

#### Tutorial Chairs

Naouel Moha and Jean Privat,  
Université du Québec à Montréal, Canada

#### Doctoral Symposium Chairs

Mireille Blay-Fornarino and Philippe Collet,  
Université de Nice, France

#### Research Project Symposium Chair

Isabelle Borne, Université de Bretagne-Sud, France

#### Poster and Demos Chairs

Houari Sahraoui, Université De Montréal,  
Canada  
Bernard Carré, Université de Lille, France

#### Summer School Chairs

James Noble, Victoria Univ. of Wellington, New Zealand  
Jan Vitek, Purdue University, USA

#### Web and social events Chairs

Chouki Tibermacine and Clémentine Nebut,  
Univ. de Montpellier, France

#### Sponsorship and Industrial Relationships Chairs

Jean-Paul Rigault, Université de Nice, France  
Abdelhak-Djamel Seriai, Univ. de Montpellier, France

#### Student Volunteers Chairs

Jannik Laval, INRIA Bordeaux, France  
Floréal Morandat, Purdue University, USA  
Petr Spacek, Univ. de Montpellier, France

### Welcome to ECMFA, ECOOP and ECSA 2013, 3 co-located conferences held in Montpellier, France, in July 2013

When the European Conference on Object-Oriented Programming (**ECOOP**) was created in 1987, object-oriented technologies were a major innovation in Software Engineering and they became a success story since then. Afterwards, other innovative approaches emerged, namely Model Driven Engineering and Software Architectures, that gave rise to their European Conference series, the European Conference on Modelling Foundations and Applications (**ECMFA**) and the European Conference on Software Architecture (**ECSA**). The joint organisation of these key conferences provides a unique opportunity to gather practitioners and researchers interested in these fields, and allow them to interact with each other.

Montpellier is pleased to host, in 2013, the 27th ECOOP edition, the 9th ECMFA edition and the 7th ECSA edition for an exciting rendez-vous!

#### Registration

A single registration will grant access to the three conferences and all satellites events.

#### Proceedings

The proceedings will be published in the Springer-Verlag Lecture Notes in Computer Science series.

#### Satellite events

Satellite events are organised in conjunction with ECMFA, ECOOP, and ECSA. Workshops, Tutorials, Doctoral Symposium and Research Project Symposium will be held on Monday and Tuesday 1-2 July 2013.

#### Workshop and Tutorial Proposals

Proposals for Workshops and Tutorials will be continuously examined between Dec. 2012 and March 2013. Proposers will be notified as soon as their proposals are examined.