

WICSA 2015

May 4-8, 2015 Montreal, Canada

www.wicsa.net

12th Working IEEE/IFIP Conference on Software Architecture Architecting in context

Preliminary Call for Papers

WICSA is the premier gathering of practitioners and researchers interested in finding out about and improving the state of practice of Software Architecture. Since its inception, WICSA has functioned as a working conference, where researchers meet practitioners and where practicing software architects can explain the problems that they face in their day-to-day work and so influence the future of the field. In addition to traditional conference keynotes and paper sessions WICSA includes interactive working sessions where practitioners and researchers discuss their experiences to understand the current state of the field, and identify opportunities to make a difference in the future.

For WICSA 2015 the theme is “*Architecting in context*” – exploring the relations between software architecture, organizational and global, ever-changing and pervasive contexts. This conference looks at how context influences architecting and determines novel architecture solutions. Architects work in many different contexts and these contexts have an impact both on their design decisions and their organizational responsibilities. An architect working in a financial institution must comply with a variety of regulations. An architect working in a gaming company has very different concerns, as do architects working in automotive domains. Development that is geographically distributed affects both the design of the architecture and the structure of the developing organization. We are interested in original papers that place architecture and architects in context and explain how that context affects their work and their output.

We solicit two types of submissions from the software architecture community: full papers and short papers.

Full papers should describe original and significant results of theoretical, empirical, conceptual, or experimental research and industrial practice in software architecture. Full papers are limited to 10 proceedings pages, at most 8000 words. Papers must not have been previously published nor submitted or under consideration elsewhere for publication. All papers should explicitly state the goals of systems or approaches described, discuss relationships to previous work, and should use accepted, standard terminology. We especially welcome submissions of papers addressing practical evaluation and industrial application, as well as innovative approaches and ideas discussing emerging challenges.

Short papers are focused pieces of writing intended to stimulate discussion related to experiences and ideas, rather than to present mature results. Short papers are limited to 4 proceedings pages, at most 3000 words. Papers should trigger discussion and raise awareness and reflection on specific topics, in both research and industrial practice, such as: insights on existing methods and techniques; identifying gaps in the state of the practice; and proposals to fill those gaps.

Depending on their ability to trigger discussion, both full and short accepted papers can be clustered and discussed in working sessions, always an integral part of the WICSA program. Make submissions to EasyChair.

We are also actively soliciting proposals for **tutorials, workshops and birds-of-a-feather sessions** to be part of the conference program. Further details on submission of each type of contribution can be found on the conference website.

Topics of interest for the conference include (but are not limited to) the following themes:

- Software architecture/architecting in organizational and/or global contexts
- Software architecture and (software) qualities
- Reusable architectural solutions
- Architecture description languages and model driven architecture
- Software architecture modeling, analysis methods and tools
- Software architecture/architecting, energy-awareness and sustainability
- Software architecture knowledge management
- Software architecture of ultra large to very small systems
- Software architectures for emerging systems
- Software architecture discovery and recovery
- Software architecture for legacy systems and systems integration
- Software architecture for service-oriented and cloud-based provisioning
- Open architectures, product-line architectures, software ecosystems, systems of systems
- Cultural, economic, business and managerial aspects of software architecture
- Software architects' roles and responsibilities
- Training, education, and certification of software architects
- State-of-the-art and state-of-practice in software architecture
- Industrial experiments and case studies

Paper submissions deadline

Abstracts (obligatory) due: 6 January 2015

Full papers due: 15 January 2015

Notification of acceptance: 12 February 2015

Camera-ready due: 3 March 2015

Contacts

General Chair – Philippe Kruchten (University British Columbia)

Program Chairs – Len Bass (NICTA), Patricia Lago (VU University Amsterdam)