WICSA 2014

Message from the Program Chairs

The 11th Working IEEE/IFIP Conference on Software Architecture is held in Sydney, Australia between the 7th and 11th of April 2014. The theme of this year’s conference is “The Future of Software Architecture”. The papers selected in this conference include full papers and short papers. Full papers present mature research or industrial experiences. Short papers present promising or interesting works that are potentially significant in the future. As WICSA is a working conference, we aim to provide a venue for the participants to exchange ideas during the conference.

This year we received 115 initial abstract submissions, of which 90 papers were received by the deadline. After some careful selections, we have accepted 19 full papers (21.1% acceptance rate) and 17 short papers, 4 papers were withdrawn after acceptance. Accepted papers were by 104 authors representing 44 institutions in 20 countries. Each paper received three reviews and there were a total of 270 reviews. After the reviews, many online discussions took place before we finally selected the papers in the proceedings. We had 71 members in the program committee. PC members came from 21 countries (USA, Australia, The Netherlands, Spain, Italy, Germany, Sweden, United Kingdom, Finland, India, China, Turkey, Ireland, Brazil, Switzerland, Canada, Belgium, Austria, France, Portugal and New Zealand). Our PC members made detailed reviews and had carried out discussions to help select the papers. We thank our PC members and sub-reviewers for their diligence and professionalism.

In the proceedings, we have grouped the papers in the WICSA 2014 Proceedings by five general software architecture (SA) topics:

**SA Design** (2 sessions, 4 full papers, 4 short papers) – various new ideas were reported in this conference, including architecture design using data streaming support, model-view (M-V-*) design patterns, deriving component interfaces using formal concept analysis, and platform boundary resources for development.

**SA for Runtime Adaptation** (1 session, 3 full papers, 2 short papers) – a number of papers deal with runtime adaptation and monitoring, these papers cover subjects such as system-of-systems runtime behavior, selective monitoring of faulty components for faulty components, runtime evolution of serviced-based business processes.

**SA Analysis and Evaluation** (2 sessions, 3 full papers, 2 short papers) – topics include automated reference architecture checking and evaluation of REST-based architecture.

**SA Modeling** (2 sessions, 3 full papers, 3 short papers) – methods were proposed to improve the modeling of SA behavior, process to evolve reference architecture, and modeling of versions of architecture.

**SA Decisions and Knowledge Management** (3 sessions, 6 full papers, 6 short papers) – a number of papers report on SA decisions and knowledge management issues, these papers include architectural decisions for components partitioning, group decision making, a study of architecture development in agile environment, study of traceability links of architectural decisions, industry documentation frameworks for architectural decisions.
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**WICSA 2014 Program Committee Chairs**