IEEE ICSA 2020

IEEE International Conference on Software Architecture

March 16-20, 2020   Salvador, Bahia, Brazil

General Chair

Eduardo Almeida, Federal University of Bahia, Brazil

Program Co-chairs

Sam Malek, University of California, Irvine, USA
Alessandro Garcia, PUC-Rio, Brazil

Paulo Merson, Brazilian Federal Court of Accounts, Brazil

Important Dates

Abstract submission	December 11, 2019
Full paper submission	December 18, 2019
Notification of acceptance	February 1, 2020

The **IEEE International Conference on Software Architecture (ICSA 2020)** is the premier gathering of practitioners and researchers interested in software architecture, in component-based software engineering and in quality aspects of complex software systems. ICSA continues the tradition of a working conference, where researchers meet practitioners and where software architects can explain the problems they face in their day-to-day work and try to influence the future of the field. Interactive working sessions will be the place where researchers meet practitioners to identify opportunities to create the future.

Submissions

We welcome submissions of technical research papers that describe original and significant results of theoretical, empirical, conceptual, or experimental work in software architecture research or industrial practice. The novelty of the contribution needs to be clearly described and the results validated. All submissions must conform to the ICSA 2020 formatting and submission instructions and must not exceed 10 pages for the main text, inclusive of all figures, tables, appendices, etc. Two more pages containing only references are permitted. The submissions will be evaluated based on soundness, significance, verifiability, and presentation quality, in that order.

Please note that ICSA 2020 will pursue a double-blind review process for the main Technical track (only), therefore all submissions to this track have to fulfill the double-blind reviewing requirements. Papers submitted to the ICSA2020 technical track that disregard these review requirements will not be reviewed but desk-rejected.

All accepted contributions will be published in ICSA 2020 proceedings, and appear in IEEE Xplore Digital Library. At least one author of an accepted contribution is required to register and present the work at the conference.

Topics

Topics of interest for the conference include (but are not limited to) the following themes:
- Architecture & CI/CD, DevOps, Containerization, Serverless platforms
- Microservices and event-driven architectures
- Model driven engineering for continuous architecting
- Up-front architecture and agile development
- Architecting Systems of Systems, IoT systems, CPSs, software ecosystems, self-adaptive systems, or autonomous systems
- Component-based software engineering
- Architecture evaluation and quality aspects of software architectures
- Automatic extraction and generation of software architecture descriptions
- Refactoring and evolving architecture design decisions and solutions
- Architecture frameworks and architecture description languages
- Linking architecture to requirements and/or implementation
- Architecture conformance
- Reusable architectural solutions
- Software architecture knowledge management
- Software architecture for legacy systems and systems integration
- Architecting families of products
- 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

ICSA 2020 homepage: http://icsa-conferences.org/2020