IEEE ISORC 2015 CALL FOR PAPERS
AUCKLAND, NEW ZEALAND
APRIL 13 - 17, 2015
http://www.isorc2015.org

The best papers from ISORC 2015 will be invited for submission to the ISORC special issue of the ACM Transactions on Embedded Computing (TECS)

ISORC has become established as the leading event devoted to state-of-the-art research in the field of object/component/service-oriented real-time distributed computing (ORC) technology. We invite original submissions from academia and industry pertaining to all aspects of ORC technology. These include, but are not limited to:

**Programming and system engineering:** ORC paradigms, object/component models, languages, synchronous languages, RT CORBA, Embedded .NET, RT RMI, RT Java, UML, model-driven development, specification, design, verification, validation, testing, maintenance, system of systems, time-predictable systems and hardware.

**Distributed computing and communication infrastructures:** real-time communication, networked platforms, protocols, Internet QoS, peer-to-peer computing, sensor networks, trusted and dependable systems.

**System software:** real-time kernels and OS, middleware support for ORC, QoS management, extensibility, synchronization, resource allocation, scheduling, fault tolerance, security.

**Applications:** embedded systems (automotive, avionics, consumer electronics, building systems, sensors, etc), multimedia processing, RT Web-based applications, real-time object-oriented simulations.

**System evaluation:** output accuracy, timing, dependability, end-to-end QoS, overhead, fault detection and recovery time.

**Cyber-physical systems:** mobile systems, wireless sensor networks, real-time analytics, autonomous automotive systems, process control systems, distributed robotics.

**Guidelines for Manuscripts**

IEEE ISORC 2015 invites papers in three categories. According to program committee guidelines, papers presenting practical techniques, ideas, or evaluations will be favored, with papers reporting experimentation results and industrial experiences particularly welcome. Originality will not be interpreted too narrowly, but papers that are based on severely unrealistic assumptions will not be accepted however mathematically or logically sophisticated the discussion may be. Submission guidelines for each category of paper are as follows:
Research Papers

Papers should describe original work and be maximum 8 pages in length using the IEEE paper format (link to templates). A maximum of two extra pages may be purchased.

Papers presenting Industrial Advances

Industrial papers and practitioner reports, describing experiences of using ORC technology in application or tool development projects, are an integral part of the technical program of ISORC. A majority of these papers are expected to be shorter and less formal than research papers. They should clearly identify, and discuss in detail, the issues that represent notable industrial advances. Reports with project metrics supporting their claims are particularly sought, as well as those that show both benefits and drawbacks of the approaches used in the given project.

Short Synopses

Short papers (4 pages or less using the IEEE format) on substantial real-time applications are also invited, and should contain enough information for the program committee to understand the scope of the project and evaluate the novelty of the problem or approach.

Acceptance Criteria

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**Papers that are based on severely unrealistic assumptions will not be accepted however mathematically or logically sophisticated the discussion may be.**

Publication information

Papers are to be submitted through the Easychair system.

All accepted submissions will appear in the proceedings published by IEEE. A person will not be allowed to present more than 2 papers at the symposium.

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