

IEEE ISORC 2016

YORK, UK

CALL FOR PAPERS

Best papers from ISORC 2016 will be invited for submission
to a Special Issue of an IEEE / ACM Journal

IMPORTANT DATES

Submission deadline (EXTENDED)	Feb 21, 2016
Acceptance notification (EXTENDED)	March 20, 2016
Camera-ready papers (EXTENDED)	April 4, 2016

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. In 2016, we have adopted a new theme - **Real-Time Issues and Challenges for novel applications and systems**: Medical devices, intelligent transportation systems, Industrial automation systems, Internet of Things and Smart Grids. In addition to high-quality theoretical papers, we solicit high-quality papers pertaining to the above application domains.

We invite original submissions pertaining to all aspects of ORC technology and especially those that are well aligned with the 2016 theme. These include, but are not limited to:

Programming and system engineering

Real-time programming challenges, ORC paradigms, object/component models, languages, synchronous languages, RT CORBA, Embedded .NET, RT RMI, RT Java, UML, model-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, VANETS and V2V and V2I communication, 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:

Medical devices, intelligent transportation systems, Industrial automation systems, Internet of Things and Smart Grids, embedded systems (automotive, avionics, consumer electronics, building systems, sensors, etc), multimedia processing, RT Web-based applications.

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.

Guidelines for Manuscripts

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.

IEEE ISORC 2016 invites papers in three categories. Submission guidelines for each category of paper are as follows:

Regular Research Papers

These papers should describe original work and be maximum 8 pages in length using the IEEE paper format (see website for details). A maximum of two extra pages may be purchased.

Industrial papers and practitioner reports

Papers 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 papers

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

According to program committee guidelines, papers presenting practical techniques, ideas, or evaluations will be favored. Papers reporting experimentation results and industrial experiences are particularly welcome. Originality will not be interpreted too narrowly.

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. The URL to submit papers is https://www.easychair.org/conferences/submission_new.cgi?a=9978562.

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.