

CALL FOR PAPERS (v4)
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ISORC 2000

The 3rd IEEE International Symposium on Object-oriented Real-time distributed Computing



March 15 - 17, 2000
Newport Beach, California

Sponsored by:
IEEE Computer Society TC on
Distributed Processing

In cooperation with:
IFIP WG 10.4,
OMG, IBM

SCOPE:

This is the third IEEE Computer Society symposium dealing with the rapidly expanding field of object-oriented real-time distributed computing (ORC) technology. The increased interest in this area means that the symposium has outgrown the capacity of an attendance-limited workshop. ISORC was created with the goal of becoming an exemplary symposium series characterized by a spirit of openness, where diverse views and new approaches can be freely discussed.

The principal theme of ISORC is the use of the object-oriented computing paradigm — which has prevailed in many non-real-time applications in the past decade — in a wide variety of real-time applications.

Papers pertaining to all aspects of ORC are sought, including but not limited to the following:

- *New ORC paradigms*
- *Object models*
- *Requirements engineering*
- *System (incl. communication), hardware, and software architectures (real-time CORBA, DCOM, real-time Java, etc.)*
- *Specification and design*
- *Real-time system architectures*
- *Languages and tools for structuring real-time objects*
- *Highly-dependable ORC, including fault-tolerant and secure ORC*

- *Resource allocation and Memory management (garbage collection, etc.)*
- *Operating system support for ORC and real-time object request brokers*
- *Database architectures for ORC*
- *Real-time simulation*
- *Testing, verification, and evaluation of system properties, including output accuracy, timeliness, dependability, etc.*
- *System/software engineering methodology*
- *Multimedia processing and WAN communication applications*
- *Application areas such as embedded systems (automotive, avionics, consumer electronics), business and industrial applications, etc.*

Papers dealing with other issues that are related to the specification, design, implementation, and evaluation of ORC systems are also welcome. To promote dialogue between researchers and users of ORC, contributions from industry are particularly welcome.

The Program Committee will use the following guidelines in evaluating the submitted papers and composing the technical program:

- *Papers must be relevant, directly or indirectly, to the central themes of real time and object orientation.*
- *Papers presenting practical techniques, ideas, or evaluations will be favored. Experience reports or experimental*

developments are particularly welcome. Originality will not be interpreted too narrowly.

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

SUBMISSION GUIDELINES

Research Papers

Papers should describe original work, and be 20 double-spaced pages (5,000 words) or less in length.

Industry papers

Industrial papers and practitioner reports, describing experiences of using object-oriented technology in real-time application or tool development projects, are an integral part of the technical program of ISORC. A majority of them are expected to be shorter and less formal than research papers. They should clearly identify, and discuss in detail, the issues that represent the main contribution. 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 (3 double-spaced pages or less in length) of 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. All accepted submissions will appear in the proceedings.

Authors are requested to submit their manuscripts electronically (via FTP) in the Microsoft Word document format, PDF format, or the Postscript format to the address given below:

Submission Deadline: October 6, 1999.

Submissions should be sent to:

FTP site: dream.eng.uci.edu
login ID: anonymous
password: the submitter's email address

After the login,

1. Change the directory to "isorc2k-submit", i.e.,
ftp> cd isorc2k-submit
2. Name the file containing the paper in the format of *zzz-y-n.ext* where "zzz" and "y" are your last name and first initial, respectively, "n" is a sequence number for an author who submits multiple papers, and "ext" is a file extension. For example, a paper by Eltefaat Shokri in PDF format should be named as *shokri-e-1.pdf*.
3. Transfer your file in the "binary" mode.

Authors should also send the following information to isorc2k@dream.eng.uci.edu by email:

- Title of the paper and names of the authors.
- The name of the file deposited into isorc2k-submit.
- Email address of the contact author.
- An indication of whether the author prefers the paper to be reviewed by the main PC or the industry program subcommittee.

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