

[TCDP] IEEE TC on Distributed Computing Newsletter, February 2007
[http://tab.computer.org/tcdp/]

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Inaugural International Conference on Distributed Event-Based Systems
(DEBS 2007)

P E R C O M 2 0 0 7
<http://www.percom.org>
<http://www.cse.psu.edu/~hurson/percom2007/>
 Crowne Plaza Hotel
 White Plains, New York
 March 19-23, 2007

 Advance Program and Call for Participation

IEEE International Conference on Pervasive Computing and Communications (PerCom) Sponsored by The IEEE Computer Society, The University of Texas at Arlington, and the IEEE Technical Committee on Computer Communications. Cosponsored by the IEEE Technical Committee on Parallel Processing and the IEEE Technical Committee on Distributed Processing.

Industry Sponsors: IBM Research

IEEE PerCom 2007 will be the fifth annual conference on the emerging area of pervasive computing and communications aimed at providing an exciting platform and paradigm for all the time, everywhere services. PerCom 2006 will provide a high profile, leading edge forum for researchers and engineers alike to present their latest research in the field of pervasive computing and communications.

Main Features

- *** 20 Full Papers and 8 Concise Contributions ***
- *** 2 Keynote speeches ***
- *** 1 Panel ***
- *** 10 Workshops ***
- *** 12 Work-in-Progress ***
- *** 1 Demonstration session ***

SPECIAL ISSUES

A special issue of PMC with selected papers of PerCom 2007 will be published in the December 2007 issue.

FINAL CALL FOR PAPERS

Inaugural International Conference on
 Distributed Event-Based Systems (DEBS 2007)

** Deadline: March 14, 2007 **

Toronto, Canada, June 20-22, 2007
<http://debs.msrg.toronto.edu>

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In cooperation with: USENIX, IEEE and IEEE Computer Society, ACM (SIGSOFT)
Sponsorship from: CA Labs (Main Sponsor), HP Labs (Silver Sponsor) and MITACS

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Important Dates

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Research, Industry,
Demo Paper Submission:

** March 14, 2007 **

Author Notification:
Final Manuscript due:
DEBS Conference:

May 7, 2007
May 28, 2007
June 20-22, 2007

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Keynotes and Invited Speakers
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- * Tim Bass, TIBCO Software, USA
- * K. Mani Chandy, California Institute of Technology, USA
- * Opher Etzion, IBM Research Haifa, Israel
- * Gregor Hohpe, Google, USA
- * Joe Sventek, University of Glasgow, Scotland

The Inaugural International Conference on Distributed Event-Based Systems is following on the success of the previous five DEBS Workshops held from 2002 to 2006 in companion with major conferences sponsored by IEEE and ACM such as ICDCS, ICSE, and SIGMOD/PODS.

Event-based systems have been established in industry and research for many years. They are now gaining increasing momentum as witnessed by current efforts in areas including event-driven architectures, business process management and modeling, Grid computing, Web services notifications, and message-oriented middleware. Events represent asynchronous state transitions in the environment and event-based computing refers to the computational support and abstractions required to adequately manage and process events.

Continuing DEBS as an independent conference aims to satisfy this growing and interdisciplinary interest in event-based computing. The objectives of the DEBS Conference are to provide a forum dedicated to the dissemination of original research, the discussion of practical insights, and the reporting on relevant experience relating to event-based computing previously scattered across several communities.

The scope of the conference covers all topics relevant to event-based computing ranging from those discussed in related disciplines (e.g., coordination, software engineering, peer-to-peer systems, Grid computing, and streaming databases), over domain-specific topics of event-based computing (e.g., workflow management systems, mobile computing, pervasive and ubiquitous computing, sensor networks, user interfaces, component integration, Web services, and embedded systems), to enterprise related topics (e.g., enterprise application integration, real time enterprises, and Web services notifications).

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Conference Scope
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The topics addressed by the conference include, but are not limited to:

Models, Architectures, and Paradigms

- * Event-driven architectures
- * Complex event processing
- * Basic interaction models (publish/subscribe, register/notify, hybrids etc.)
- * Event schemas and type systems
- * Languages for event correlation and patterns, streaming and continuous queries, and data fusion
- * Performance modeling and prediction based on analytic approaches
- * Design and programming methodologies (e.g., MDA-based approaches)
- * Event-based business process management and modeling
- * Experimental methodologies (e.g., design of simulations and experiments)
- * Models for static and dynamic environments (e.g., client mobility models, distribution of clients and their behavior)

Middleware Infrastructures for Event-Based Computing

- * Federated event-based systems (e.g., scoping and transforming)
- * Middleware for actuator and sensor networks
- * Algorithms and protocols (e.g., data diffusion, content-based

- routing, subscription merging, matching, pattern detection, etc.)
- * Event dissemination based on peer-to-peer routing substrates
- * Implementations of streaming queries, transformations, or correlation engines
- * Fault-tolerance, reliability, availability, and recovery
- * Security issues (e.g., confidentiality, integrity, privacy, trust)
- * (Self-)Management (e.g., reconfiguration, adaptation, and organization)
- * Context and location awareness
- * Mobility and resource-constrained device support

Applications, Experiences, and Requirements

- * Use cases and applications of event-based systems
- * Real-world application deployments using event-based middleware
- * Domain-specific deployments of event-based systems
- * Real-world data characterizing event-based applications
- * Benchmarks, performance evaluations, and testbeds
- * Seamless integration of event-based mechanisms into middleware

platforms

- * Application requirements for next-generation event-based solutions
- * Relation to other architectures such as SOA
- * Enterprise application integration
- * Event-driven business process management (e.g., using RFID in logistics and healthcare)

- * Information Logistics

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Program Committee
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Jean M. Bacon, University of Cambridge, UK
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 Sumeer Bholra, IBM Thomas J. Watson Research Center, USA
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 Joe Sventek, University of Glasgow, UK
 Peter Triantafyllou, University of Patras, Greece

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Organization
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 Gero Muehl, Berlin University of Technology, Germany

Organizing Chair
 Michael A. Jaeger, Berlin University of Technology, Germany

Publicity Chair
 Peter R. Pietzuch, Imperial College London, UK

Demo Chair
 Annika Hinze, University of Waikato, New Zealand

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Submission Guidelines
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Three types of paper submissions will be accepted:

- * Research papers
- * Industry papers
- * Demo papers

Submitted papers should clearly indicate their type. Accepted papers will be published by ACM. All papers must represent original and unpublished work that is not currently under review. Each paper will be reviewed by at least three independent referees. Papers will be evaluated according to their significance, originality, technical content, style, clarity, and relevance to the conference. At least one author of each accepted paper is expected to attend the conference.

The conference proceedings will be published as part of the ACM International Proceedings Series and will be disseminated through the ACM Digital Library. The conference adopts a ****double blind**** review process, where neither authors nor reviewers know each others' identities.

Papers must not exceed the given number of pages for the respective paper type (see below). The required format for the submission is the ACM SIG Proceedings Style. The author kit containing templates for the required style can be found at

<http://www.acm.org/sigs/pubs/proceed/template.html>.

The author(s) name(s) and address(es) must not appear in the body of the paper, and self-references should be in the third person. This is to facilitate a double-blind review process. Please apply the ACM Computing Classification categories and terms, which can be found at <http://www.acm.org/class/1998/>.

More detailed submission instructions are posted at the conference website.

Research Papers: (max. 12 pages)

A research paper describes new results that advance the state-of-the-art in basic or applied research. Short papers (max. 6 pages) presenting work-in-progress are also welcome.

Industry Papers: (max. 8 pages)

An industry paper describes the design, the experience (in building, deploying and running), or the performance of an industry system. Commonly, the majority of authors on the paper are from industry. Product marketing material will not be accepted as papers.

Demo Papers: (max. 4 pages)

A demo paper reports on an existing research prototype by clearly identifying the original contributions and ideas demonstrated. The authors are expected to prepare a poster and perform a live software demonstration on their own laptop during an exhibit-style conference reception. Any special requirements should be identified in the appendix of the paper.

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Join TCDP

The TCDP welcomes IEEE Computer Society members with an interest in distributed computing. There are many ways to participate in TCDP activities.

Please contact Dr. Jie Wu, TCDP chair, at jie@cse.fau.edu for more information.

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News Letter Editor:

Prof. Jiannong Cao
Department of Computing
Hong Kong Polytechnic University
Email: csjcao@comp.polyu.edu.hk

TCDP-announce mailing list
TCDP-announce@ml.comp.polyu.edu.hk

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<http://tab.computer.org/tcdp/publications.html>

End of TCDP Newsletter, February 2007