DEBS 2007

Inaugural International Conference on Distributed Event-Based Systems 2007

June 20th-22nd, 2007, in Toronto, Canada
http://www.debs.msrg.utoronto.ca

Event-based systems have been established in industry and research for many years. The Inaugural International Conference on Distributed Event-Based Systems (DEBS) is following on the success of the previous five DEBS workshops held from 2002 to 2006. DEBS is organized in co-operation with USENIX, IEEE Computer Society, ACM SIGSOFT and SIGMOD and supported by CA Labs (main sponsor) and MITACS.

Important Dates

Paper Submission:	*March 14, 2007*
Author Notification:	*May 7, 2007*
Final Manuscript due:	*May 28, 2007*
DEBS Conference:	*June 20-22, 2007*

Keynote and Invited Speakers

- *Tim Bass* (SilkRoad, 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)

Conference Scope

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).

Models, Architectures, and Paradigms
- Event-driven architectures
- Complex event processing
- Basic interaction models (e.g., publish/subscribe, register/ notify)
- 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)
- Event-based business process management and modeling
- Experimental methodologies (e.g., design of simulations, experiments)
- Models for static and dynamic environments (e.g., client mobility models, distribution of clients)

Middleware Infrastructures for Event-Based Computing
- Federated event-based systems (e.g., scoping, transforming)
- Middleware for actuator and sensor networks
- Algorithms and protocols (e.g., data diffusion, content-based routing, subscription merging and matching)
- Event dissemination based on peer-to-peer routing
- Implementations of streaming queries, transformations, or correlation
- Fault-tolerance, reliability, availability, and recovery
- Security issues (e.g., confidentiality, integrity)
- (Self-)Management (e.g., reconfiguration, adaptation, 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
- 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., RFID in logistics and health care)
- Information logistics

Program Committee
- *Jean M. Bacon* (University of Cambridge, UK)
- *Roger S. Barga* (Microsoft Research Redmond, USA)
- *Tim Bass* (TIBCO Software Inc., USA)
- *Sumeer Bhola* (IBM TJ Watson Research Center, USA)
- *Alejandro Buchmann* (Darmstadt U. of Tech., Germany)
- *Antonio Carzaniga* (University of Lugano, Switzerland)
- *Ugur Cetinteme*l (Brown University, USA)
- *Gianpaolo Cugola* (Politecnico di Milano, Italy)
- *Opher Etzion* (IBM Research Laboratory in Haifa, Israel)
- *Ludger Fiege* (Siemens, Germany)
- *Johannes Gehrke* (Cornell University, USA)
- *Rachid Guerraoui* (EPFL, Switzerland)
- *Ling Liu* (Georgia Institute of Technology, USA)
- Lakshmish Ramaswamy (University of Georgia, USA)
- *David Rosenblum* (University College London, UK)
- *Kurt Rothermel* (University of Stuttgart, Germany)
- *Karsten Schwan* (Georgia Institute of Technology, USA)
- *Joe Sventek* (University of Glasgow, UK)
- *Peter Triantafillou* (University of Patras, Greece)

Organization

General Chair: *Hans-Arno Jacobsen* (University of Toronto, Canada)
Program Chair: *Gero Muehl* (Berlin U. of Technology, Germany)
Organizing Chair: *Michael A. Jaeger* (Berlin U. of Technology, Germany)
Publicity Chair: *Peter R. Pietzuch* (Imperial College London, UK)
Demo Chair: *Annika Hinze* (University of Waikato, New Zealand)

Submission Guidelines

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.

Three types of paper submissions will be accepted: research papers, industry papers, and demo papers. Submitted papers should clearly indicate their type. Accepted papers 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. More detailed submission instructions will be posted at the conference web site.

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 will not be accepted as paper.

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 during an exhibit-style conference reception.

Sponsors and Support

CA Labs

IEEE

acm

Φ

MITACS

USENIX

SIG SOFT

hp invent

ACM SIGMOD