Happy New Year!

[TCDP] IEEE TC on Distributed Computing Newsletter, December 2006

[http://tab.computer.org/tcdp/]

Table of Contents

Call for Papers (MASS'07)

The 4th International Conference on Mobile Ad Hoc and Sensor Systems MASS07
Pisa, Italy, October 8-11, 2007 http://cnd.iit.cnr.it/mass2007

Sponsored by

IEEE Computer Society, IEEE TC on Distributed Processing and TC on Simulation

Wireless multi-hop communication is envisioned in multiple scenarios where network nodes communicate via other network nodes: conferences, hospitals, battlefields, rescue operations, environment control, cars-to-cars, and monitoring scenarios. Wireless mesh networks have been applied as alternatives for providing Internet access in remote business and residential areas. Wireless sensor networks are being deployed for several industrial control processes and for monitoring environment.This conference aims to address multi-hop ad-hoc and sensor networks systems, covering topics ranging from technology issues up to the applications aspects. Original manuscripts that focus on the analytical modeling, protocol/algorithm design, and/or experimental studies of the following topics of interest are sought:

* physical layer impact on higher level protocols
* MAC protocols for ad-hoc and sensor networks (802.11, 802.15.4, UWB)
* Provisioning of wireless QoS in terms of bandwidth and delay assurance
* Routing protocols (unicast, multicast, broadcast, geocast) and routing metrics
* Data transport in wireless ad hoc and sensor networks
* Power-aware and energy-efficient design
* Topology construction and coverage maintenance
* Cross layer design and optimization
* Incentives and game theoretic approaches in wireless ad-hoc networks
* Localization and synchronization in wireless sensor networks
* Data gathering, fusion, and dissemination in wireless sensor
* Reliability, security, and trustworthiness issues in ad hoc and sensor networks
* Operating system and middleware support
* Measurements and practical experience from experimental systems and test-beds
* Modeling, analysis and performance evaluation
* Mesh networking
* Delay tolerant networks and opportunistic networking
* Handoff and mobility management and seamless internetworking
* Peer-to-peer, overlay, and content distribution wireless ad hoc networks
* Reliability, security, and trustworthiness issues in ad hoc and sensor networks

Paper submission

All submissions must be full papers in .pdf or .ps (PostScript) format. Papers must be uploaded to EDAS by March 31, 2007, and must not exceed 10 single-spaced, two-column pages using at least 11 point size fonts on 8.5 x 11 inch pages. Detailed submission instructions will be published in due time on the conference website http://www.ieee-mass.org together with format files.

Workshops

Proposals for full day workshops are solicited. Selections will be made considering the expertise and experience of the workshop organizers and the relevance of the topic to the central theme of the conference. Proposals of at most 4 pages, including a 1-page biographical sketch, should be submitted to the Workshops Chair by March 31, 2007.

Demos

Technical demonstration of experimental ad hoc networking and computing systems are solicited. To Instructions for submitting a demo proposal will be published in due time on the conference website.

GENERAL CHAIR

Marco Conti, IIT-CNR, Italy

PROGRAM CHAIRS

Silvia Giordano, SUPSI, Switzerland
Ivan Stojmenovic, Univ. Ottawa, Canada

PROGRAM VICE CO-CHAIRS

Giuseppe Anastasi, Univ. of Pisa, Italy
Doug Blough, Georgia Inst.Techn., USA
S.-C. Liew, Chinese Univ. Hong Kong
David Simplot-Ryl, Univ. Lille, France

WORKSHOPS CHAIR

Luciano Bononi, Univ. of Bologna, Italy

AWARDS CHAIRs

Jie Wu, Florida Atlantic Univ., USA
Serge Fdida, Univ. Paris 6, France

PUBLICITY CO-CHAIRS

Angela Zhang, Chinese Univ. Hong Kong
Nathalie Mitton, INRIA, Lille, France

FINANCE & REGISTRATION CHAIR

Anup Kumar, Univ.Louisville,USA

PUBLICATION CHAIR

Dajin Wang, Montclair State Univ., USA

LOCAL ARRANGEMENTS CHAIR

Adriana Lazzaroni, IIT-CNR

WEB DESIGNER AND MANAGER

Maria Bucci, IIT-CNR, Italy

DEMO CHAIR

Andrea Passarella IIT-CNR, Italy

Industry Liaison

Jon Crowcroft, Univ. of Cambridge, UK

IEEE TC CHAIRS

Jie Wu (TC DP), Florida Atl. Univ., USA
Anup Kumar (TC S), Univ. Louisville

STEERING COMMITTEE CHAIR

Dharma P. Agrawal, Univ. Cincinnati

Important dates

Manuscript Submission Due: March 31, 2007
Acceptance Notification: June 30, 2007
Final Manuscript Due: August 10, 2007

CALL FOR PAPERS

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

Toronto, Canada, June 20-22, 2007

http://debs.msrg.toronto.edu

In cooperation with: USENIX, IEEE and IEEE Computer Society, ACM (pending)
We acknowledge sponsorship from: CA Labs (main event sponsor) and MiTACS

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).

Conference Scope

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

Important Dates

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

Conference Location

The conference will be held at the University of Toronto, Canada.

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 Thomas J. Watson Research Center, USA
Alejandro P. Buchmann, Darmstadt University of Technology, Germany
Antonio Carzaniga, University of Lugano, Switzerland
Ugur Cetintemel, 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

PC Chair
  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

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 by ACM.

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 reviewer 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(s) name(s) and address(es) must not appear in the body of the paper, and self-reference should be in the third person. This is to facilitate a double-blind review process. Please apply the ACM Computing Classification categories and terms. The ACM Computing Classification scheme can be found at http://www.acm.org/class/1998/. The author kit containing the Latex templates for the required style can be found at: http://www.acm.org/sigs/pubs/proceed/template.html. 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, give a short presentation, 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.

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.

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

An archive of previous TCDP Newsletters can be found at:

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

End of TCDP Newsletter, December 2006
****