

[TCDP] IEEE TC on Distributed Computing Newsletter, June 2008

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 The 28th International Conference on Distributed Computing Systems  
 ICDCS 2008  
 Beijing, China  
 June 17 - 20, 2008

The 28th International Conference on Distributed Computing Systems (ICDCS 2008) was successfully held in Beijing, June 17~20. ICDCS is an IEEE Computer Society sponsored premier conference with a wide coverage of topics in Distributed Computing. It has a long history of significant achievements and worldwide visibility.

This year we received 638 papers for submission and accepted 102 papers for publishing. The best paper award was elected from these published papers as follows:

Yunhuai Liu, Qian Zhang, and Lionel Ni,  
 "Opportunity-based Topology Control in Wireless Sensor Networks"

Also, we elected IEEE TCDP Outstanding Achievements Award this year. Congratulations!

Winners for IEEE TCDP Outstanding Achievements Award

Prof. Richard M. Karp

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 For extraordinary contributions and leadership in theoretical computer science, combinatorial algorithms, discrete probability, computational biology, internet algorithms. His leadership in developing network science is critical for the continued expansion of the distributing computing field.  
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Richard M. Karp was born in Boston, Massachusetts on January 3, 1935. He attended Boston Latin School and Harvard University, receiving the Ph.D. in 1959. From 1959 to 1968 he was a member of the Mathematical Sciences Department

at IBM Research. From 1968 to 1994 and from 1999 to the present he has been a Professor at the University of California, Berkeley, where he held the Class of 1939 Chair and is currently a University Professor. From 1988 to 1995 and 1999 to the present he has been a Research Scientist at the International Computer Science Institute in Berkeley. From 1995 to 1999 he was a Professor at the University of Washington. During the 1985-86 academic year he was the co-organizer of a Computational Complexity Year at the Mathematical sciences research Institute in Berkeley. During the 1999-2000 academic year he was the Hewlett-Packard Visiting Professor at the Mathematical Sciences Research Institute. The unifying theme in Karp's work has been the study of combinatorial algorithms. His 1972 paper, "Reducibility Among Combinatorial Problems," showed that many of the most commonly studied combinatorial problems are NP-complete, and hence likely to be intractable. Much of his work has concerned parallel algorithms, the probabilistic analysis of combinatorial optimization algorithms and the construction of randomized algorithms for combinatorial problems.

Dr. Karp has made very significant contributions in the field. His current activities center on algorithmic methods in genomics and computer networking. He has over 120 publications in books, journals, and conference proceedings. He has earned a number of honors for his work, including: the U.S. National Medal of Science, Turing Award, Fulkerson Prize, Harvey Prize (Technion), Centennial Medal (Harvard), Lanchester Prize, Von Neumann Theory Prize, Von Neumann Lectureship, Distinguished Teaching Award (Berkeley), Faculty Research Lecturer (Berkeley), Miller Research Professor (Berkeley), Babbage Prize and eight honorary degrees. He is a member of the U.S. National Academies of Sciences and Engineering, the American Philosophical Society and the French Academy of Sciences, and a Fellow of the American Academy of Arts and Sciences, the American Association for the Advancement of Science, the Association for Computing Machinery and the Institute for Operations Research and Management Science.

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## IPDPS 2009 CALL FOR PAPERS

23rd IEEE International Parallel and Distributed Processing Symposium  
May 25-29, 2009  
Rome, Italy

## CALL FOR PARTICIPATION

IPDPS serves as a forum for engineers and scientists from around the world to present their latest research findings in the fields of parallel processing and distributed computing. Join us in the city of Rome to enjoy a favorite tourist destination and take part in the 23rd year of IPDPS. The five-day program will follow the usual format of contributed papers, invited speakers, panels, tutorials, and

commercial participation mid week, framed by workshops held on the first and last days. For details and updates, revisit this Website or contact us at [info@ipdps.org](mailto:info@ipdps.org).

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**IMPORTANT DATES**

1 July 2008	New Workshop Proposals Due
3 October 2008	Final Deadline for Symposium Manuscripts
5 December 2008	Review Decisions Mailed
15 February 2009	Camera Ready Papers Due

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Antonio Gonzalez, Intel and Univ. Politecnica de Catalunya, Spain

**\* SOFTWARE:**

Frank Mueller, North Carolina State University, USA

Authors are invited to submit manuscripts that present original unpublished research in all areas of parallel and distributed processing, including the development of experimental or commercial systems. Work focusing on emerging technologies is especially welcome. Topics of interest include, but are not limited to:

- \* Parallel and distributed algorithms, focusing on issues such as: stability, scalability, and fault-tolerance of algorithms and data

structures for parallel and distributed systems, communication and synchronization protocols, network algorithms, and scheduling and load balancing.

- \* Applications of parallel and distributed computing, including web applications, peer-to-peer computing, grid computing, scientific applications, and mobile computing. Papers focusing on applications using multicore and/or GPUs, or discussing scalability to the Petascale level are encouraged.
- \* Parallel and distributed architectures, including architectures for instruction-level and thread-level parallelism; special-purpose architectures, including graphics processors, signal processors, network processors, media accelerators and other special purpose processors and accelerators; impact of technology on architecture; network and interconnect architectures; parallel I/O and storage systems; architecture of the memory hierarchy; power-efficient architectures; dependable architectures; and performance modeling and evaluation.
- \* Parallel and distributed software, including parallel programming languages and compilers, runtime systems, operating systems, virtualization, resource management, fault tolerance, middleware, libraries, data mining, scalability, and programming environments and tools.

## Best Papers Awards

Awards will be given for one best paper in each of the four conference technical tracks: algorithms, applications, architectures, and software. The selected papers also will be considered for possible publication in a special issue of the Journal of Parallel and Distributed Computing.

## What/Where to Submit

Submitted manuscripts may not exceed 15 single-spaced pages using 12-point size font on 8.5x11 inch pages, including figures, tables, and references. Please use the standard 1-inch margin. Authors may submit additional material as an appendix to their submission, but there is no guarantee that this material will influence the review process. Files should be submitted in PDF format. Authors must ensure that electronically submitted files are formatted for 8.5x11 inch paper. Submission procedures will be available six weeks before submission deadline via web access at this site. Authors who have e-mail access, but not web access, should send an e-mail message to [cfp@ipdps.org](mailto:cfp@ipdps.org) for an automatic reply that will contain detailed instructions for submission of manuscripts. They should also contact the Program Chair at: [ipdps09@ipdps.org](mailto:ipdps09@ipdps.org). Authors who have no electronic access (e-mail or web) should contact the Program Chair at: Department of Computer Science and Engineering, Chalmers University of Technology, S-412 96,

Goteborg, Sweden.

## Review of Manuscripts

All submitted manuscripts will be reviewed. Submissions will be judged on correctness, originality, technical strength, significance, quality of presentation, and interest and relevance to the conference scope. Submitted papers may NOT have appeared in, nor be under consideration for, another conference or workshop, nor for a journal. Manuscripts must be received by October 3, 2008, by 11:59 PM, U.S. Eastern Daylight Time. This is a final, hard deadline; to ensure fairness, no extensions will be given. Notification of review decisions will be mailed by December 5, 2008 (typically electronically). Camera-ready papers will be due February 15, 2009.

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## CALL FOR PARTICIPATION

The 14th IEEE International Conference on Parallel and Distributed Systems (ICPADS'08)  
December 8-10, 2008 -- Melbourne, Australia  
<http://www.deakin.edu.au/conferences/icpads2008/>

### --PURPOSE AND SCOPE--

ICPADS'08 will be held in Melbourne, Australia, one of the most liveable cities in the world, on December 8-10, 2008. The conference provides an international forum for scientists, engineers, and users to exchange and share their experiences, new ideas, and latest research results on all aspects of parallel and distributed systems. 221 submissions have been received, which were submitted to the nine tracks of the conference. There are four workshops to be held together with ICPADS'08. We warmly invite you to participate in this exciting event.

Topics of interest include, but are not limited to:

- \* Parallel and Distributed Applications and Algorithms
- \* High Performance Computational Biology and Bioinformatics
- \* Multi-core and Multithreaded Architectures
- \* Power-aware Computing
- \* Distributed and Parallel Operating Systems
- \* Resource Management and Scheduling
- \* Peer-to-Peer Computing
- \* Cluster and Grid Computing
- \* Web-based Computing and Service-Oriented Architecture

- \* Communication and Networking Systems
- \* Wireless and Mobile Computing
- \* Ad Hoc and Sensor Networks
- \* Security and Privacy
- \* Dependable and Trustworthy Computing and Systems
- \* Real-Time and Multimedia Systems
- \* Performance Modelling and Evaluation

ICPADS 2008 will be held in Melbourne, Australia and will be held in one of the centrally located inner city hotels. Melbourne is a vibrant cosmopolitan city that has frequently been awarded one of the world's most "liveable" cities. Melbourne offers an excellent location for this Conference with numerous local arts, cultural, architectural and sporting attractions. It also provides an excellent hub for many of the tourist attractions throughout Victoria and Australia.

--IMPORTANT DATES--

- \* Workshop Proposal Due: May 23, 2008 (closed)
- \* Paper Submission Due: June 20, 2008 (closed)
- \* Author Notification: August 15, 2008
- \* Final Manuscript Due: September 12, 2008

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Dr Liudong Xing, University of Massachusetts, USA

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First International Colloquium on

FOUNDATIONS OF MOBILE SYSTEMS SECURITY AND RELIABILITY  
(MOSAR)

September 13, 2008, Nice, France

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The First International Colloquium on Foundations of Mobile Systems Security and Reliability will take place in Nice, France, in September 2008, co-located with the conference Adhoc-Now 2008.

Mobile systems enabled by wireless communication technology are the novel reality of our times. These systems are already pervasive in our day-to-day lives, from explicit WiFi zones in airports, to networks of sensors air-dropped in forests for fire detection, to teams of autonomous mobile robots sweeping dangerous terrains. Due to their pervasiveness, security and reliability of mobile systems must not be relegated to a secondary role, only gaining prominence when their absence

generates internal system failures or facilitates malicious external attacks; on the contrary, security and reliability must be at the forefront of the research concerns.

In addition to the traditional concerns, new security and reliability problems arise due to the specificity of these systems; to name just a few:

- \* The communication medium is physically unsecured,
- \* Computations and communications rely on other unreliable members of the system,
- \* Systems are self-organized and may evolve quickly.

To address these problems, new protocols and new programming techniques must be developed. More importantly, new theoretical foundations (using formal models and formal approaches, algorithmic techniques, and computational tools) must be laid on which to build sound and secure wireless systems.

The goal of this research meeting is to provide an international forum for researchers involved on the foundations of security and reliability in wireless mobile systems to meet, present their results, exchange insights. The focus is on theoretical research on security and reliability in mobile systems, using formal techniques, algorithmic methods, computational tools.

Here, the term "mobile systems" is used in an inclusive way, covering ad-hoc networks, sensor networks, as well as autonomous mobile robots.

The focus of the meeting is on theoretical research on security and reliability in mobile systems, using formal techniques, algorithmic methods, computational tools. Rather than a workshop or a conference (too minor the first, too formal the second), we are organizing a Colloquium, a place to meet and talk and share, merging the benefits of those two forums without (hopefully) their drawbacks.

Papers are solicited describing original research results in all theoretical aspects of security and reliability in mobile systems including (but not limited to):

- \* Formal model for mobile and wireless networks
- \* Formal verification of wireless communication protocols
- \* Distributed algorithm design for wireless systems
- \* Computability and complexity in wireless systems
- \* Fault-tolerance of wireless systems
- \* Game theory applied to wireless systems

where the wireless systems considered include (but are not limited to):

- \* Ad hoc networks
- \* Distributed sensor systems
- \* Autonomous mobile robots
- \* Vehicular networks

In addition, papers are solicited presenting in-depth surveys or tutorials on any topic covered by the colloquium. Similarly welcome are position papers expressing motivated (even if unorthodox or controversial) opinions on the current status and future directions of the research field.

#### PROGRAM COMMITTEE

Xavier Defago - JAIST, Japan  
Shlomi Dolev - Ben-Gurion University of the Negev, Israel  
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Scott Smolka - SUNY at Stony Brook, USA  
Ketil St len - SINTEF/University of Oslo, Norway  
Peter Widmayer - ETH Z rich, Switzerland

All accepted papers presented at the Colloquium will appear in the Colloquium proceedings.

Deadline for Submission: May 23 (closed)  
Notification : June 23 (closed)

For more information: <http://www.lifl.fr/MOSAR2008/>

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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](mailto:jie@cse.fau.edu) for more information.

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End of TCDP Newsletter, June 2008

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