

[TCDP] IEEE TC on Distributed Computing Newsletter, August 2007

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

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22nd IEEE International Parallel & Distributed Processing Symposium

April 14-18, 2008
Hyatt Regency Resort
Miami, Florida
USA

www.ipdps.org

Sponsored by IEEE Computer Society Technical Committee on Parallel Processing

In cooperation with ACM SIGARCH, IEEE Computer Society Technical Committee on Computer Architecture, and IEEE Computer Society Technical Committee on Distributed Processing

----- IMPORTANT DATES

September 8, 2007.....Paper Submission Site Opens
October 8, 2007.....Final Deadline for Manuscripts
November 15, 2007.....Tutorial Proposals Due
December 11, 2007.....Review Decisions Mailed
January 28, 2008.....Camera-ready Papers Due

----- IPDPS CALL FOR PARTICIPATION

Join us in April 2008 at the Hyatt Regency Resort in Miami, Florida, known as the "Magic City" and recognized worldwide as an international cultural and business hub. 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. 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, visit the IPDPS website at www.ipdps.org or email inquiries to info@ipdps.org.

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---Workshops

IPDPS workshops - held on Monday and Friday - provide attendees an opportunity to explore special topics and are a major part of the IPDPS weeklong family of events. The goal of the workshops is to present work that is more preliminary and cutting-edge, or that has more practical content than the more mature research presented in the main symposium. The workshops also broaden the content of the week's presentations by extending the topics of interest beyond those of the main symposium and deepen the week's content by focusing on specific topics and bringing together a critical mass of researchers in their select areas. Twenty workshops are planned for 2008 with most continuing from 2007. Each workshop has its own requirements and schedule for submissions and all are linked from the IPDPS web site.

---Symposium Tutorial

IPDPS 2008 will offer an evening symposium tutorial, open to all attendees, with the objective of surveying the latest developments in a key emerging area of our field. Proposals are solicited for organizing this tutorial and should be submitted by November 15, 2007 to the Tutorials Chair Sushil K. Prasad (spasad@gsu.edu).

---Commercial Participation

IPDPS is an excellent opportunity for companies to showcase their technologies to a sophisticated international audience. Commercial Participation can include three days of "walk-up-and-talk" exhibits, a presentation in a conference Commercial Track session (with a technical article in the proceedings), and an evening industrial tutorial that provides orientation and training to conference participants interested in using their technology. Companies interested in participating should contact one of the Commercial Track co-chairs as early as possible, but no

later than the first week of January 2008.

---PhD Forum (new event)

This launches a new event as part of the regular IPDPS program. The PhD Forum will be an opportunity for PhD students to present a poster describing their thesis work to a broad audience from both industry and academia in the parallel and distributed computing community. The objective of the PhD Forum is to help students establish contacts for entering the job market and at the same time give representatives from industry and academia a preview of state-of-the-art developments in parallel and distributed computing. The full call for participation in this event will be posted 6 months prior to IPDPS 2008, giving requirements for submissions and the planned review process. Visit the IPDPS Web for updates. The top submissions will receive travel awards made possible by the Technical Committee on Parallel Processing.

IPDPS 2008 CALL FOR PAPERS

PAPER SUBMISSION OPENS September 8, 2007
Go to this page after this date to submit papers.
www.ipdps.org/ipdps2008/2008_cfp.html

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 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.

---Parallel and distributed architectures, including shared memory, distributed memory (including petascale system designs, and architectures with instruction-level and thread-level parallelism), special-purpose models (including signal and image processors, network processors, other special purpose processors), nontraditional processor technologies, network and interconnect architecture, parallel I/O and storage systems, system design issues for low power, design for high reliability, and performance modeling and evaluation.

---Parallel and distributed software, including parallel programming languages and compilers, runtime systems, operating systems, resource management, middleware, libraries, data mining, 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.

*Authors who have web access will upload papers on the EDAS system, linked from www.ipdps.org after September 8th. Note that authors will be asked to select one of the four main tracks and one to three topics for each submission. Because the EDAS system will not accept manuscripts that exceed 15 pages, authors who wish to include appended material should send an Appendix as a pdf document with a file name that has the paper number (ipdps08-xxx-appendix) to the Program Chair at ipdps08@ipdps.org and make the subject of the email the same as the attached file name. Authors who submit appended material must include in their paper at the end of the Introduction a statement (in bold) that an Appendix has been submitted to the Program Chair. Again, the reading of this extra material is at the discretion of the reviewers. Authors, who have e-mail access, but not web access, should contact the Program Chair at: ipdps08@ipdps.org. Authors who have no electronic access (e-mail or web) should contact the Program Chair at:

Laboratoire LIP
Ecole Normale Supérieure de Lyon
69364 Lyon Cedex 07, France

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 8, 2007, by 11:59pm, 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 11, 2007 (typically electronically). Camera-ready papers will be due January 28, 2008.

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See web for full list of IPDPS 2008 Program Committee member.

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For more details, please visit <http://www.ipdps.org/>

The Fourth IEEE International Conference on Mobile Ad-hoc and Sensor Systems

MASS 2007

Pisa, 8 - 11 October 2007

Earlier research on wireless networks and mobile computing has concentrated on single-hop networks, where network nodes communicate directly with a fixed infrastructure, such as cellular or satellite systems. However, multi-hop communication needs to be supported in conferences, hospitals, battlefields, rescue operations, and monitoring scenarios, where network nodes communicate via other network nodes. More recently, wireless community networks (a. k. a. wireless mesh networks) have been proposed as alternatives for providing Internet access in new (business and residential) areas. This conference aims to address multi-hop ad-hoc and sensor networks systems, covering topics

ranging from physical issues to the applications aspects.

Keynote Speakers

* Message Ferrying and Other Short Stories: Mobility-Assisted Data Delivery in Wireless Networks

Mostafa Ammar, Georgia Tech., USA

* Towards Human Centric Communication

Adam Wolisz, Technische University Berlin, Germany

* A Utility-Based Routing Scheme in MANETS

Jie Wu, Florida Atlantic University and US National Science Foundation

For more details, please visit <http://cnd.iit.cnr.it/mass2007/>

ICNP 2007, the fifteenth IEEE International Conference on Network Protocols, is a conference covering all aspects of network protocols, including design, analysis, specification, verification, implementation, and performance. ICNP 2007 will be held in Beijing, China on Oct. 16-19, 2007. Papers with significant research contributions to the field of network protocols are solicited for submission. Papers cannot be previously published nor under review by another conference or journal. Topics of interest include, but are not limited to:

1. Protocol testing, analysis, design and implementation
2. Measurement and monitoring of protocols
3. Protocols designed for specific functions, such as: routing, flow and congestion control, QoS, signaling, security, network management, or resiliency
4. Protocols designed for specific networks, such as: wireless and mobile networks, Ad hoc and sensor networks, virtual networks, and ubiquitous networks

ICNP 2007 Conference Program Version one has been announced on Aug. 15, 2007

Oct 17-2007 Wednesday

08:30-10:00 Opening & Keynote Speech
10:00-10:30 Coffee Break
10:30-12:00 Session I --- Wireless mesh networks
12:00-13:30 Lunch Break
13:30-15:00 Session II --- Sensor and RFID networks
15:00-15:30 Coffee Break
15:30-17:00 Session III --- Interdomain routing
17:00-18:00 TPC Meeting
18:00-20:00 TPC Dinner

Oct 18-2007 Thursday

08:30-10:00 Session IV --- Wireless LANS
10:00-10:30 Coffee Break
10:30-12:00 Poster Session
12:00-13:30 Lunch Break
13:30-15:00 Session V --- Network security
15:00-15:30 Coffee Break
15:30-17:00 Session VI --- Streaming and congestion control
17:00-18:00 PANEL DISCUSSION
18:00-20:00 Conference Banquet(15th anniversary)

Oct 19-2007 Friday

08:30-10:00 Keynote Speech(9:00)
10:00-10:30 Coffee Break
10:30-12:00 Session VII --- Protocol implementation
12:00-13:30 Lunch Break
13:30-15:00 Session VIII --- Firewalls and privacy
15:00-15:30 Closing

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Tuesday, October 16, 2007

08:00 - 16:00 Registration Open  
07:30 - 08:30 Continental Breakfast  
08:30 - 15:30 NPsec workshop  
17:00 - 19:00 Welcome Reception

Wednesday, October 17, 2007

08:00 - 16:00 Registration Open (Outside Treasury Ballroom)

07:30 - 08:30 Continental Breakfast  
08:30 - 09:00 Opening Session  
2007 IEEE Internet Award  
09:00 - 10:00 Keynote Speech (To be announced)  
10:00 - 10:30 Coffee Break (Outside Treasury Ballroom)  
10:30 - 12:00 Session I --- Wireless mesh networks

- \* Multicast Algorithms for Multi-channel Wireless Mesh Networks.  
G. Zeng, B. Wang, Y. Ding, L. Xiao, M. Mutka (Michigan State U, USA)
- \* Throughput maximization in multi-channel wireless mesh access networks.  
Y. Song, C. Zhang, Y. Fang (U of Florida, USA)
- \* Discovering high-throughput routes in 802.11 mesh networks:  
a model-based approach  
T. Salonidis (Thomson, France), M. Garetto (Universita di Torino, Italy),  
A. Saha, E. Knightly (Rice U, USA)
- \* Cooperation Between Stations in Wireless Networks  
A. Forte, H. Schulzrinne (Columbia U, USA)

12:00 - 13:30 Lunch Break  
13:30 - 15:00 Session II --- Sensor and RFID networks

- \* A Probabilistic Coverage Protocol for Wireless Sensor Networks  
M. Hefeeda, H. Ahmadi (Simon Fraser U, Canada)
- \* Coverage without location information  
Younis (Telcordia, USA), M. Krunz, S. Ramasubramanian (U of Arizona, USA)
- \* Slotted scheduled tag access in multi-reader RFID systems  
Zhou, H. Gupta, S. Das, X. Zhu (Stony Brook U, USA)
- \* Greedy Virtual Coordinates for Geographic Routing  
B. Leong (National U of Singapore), B. Liskov, R. Morris (MIT, USA)

15:00 - 15:30 Coffee Break(Outside Treasury Ballroom)  
15:30 - 17:00 Session III --- Interdomain routing

- \* Understanding Route Redistribution  
F. Le (Carnegie-Mellon U, USA), G. Xie (Naval Postgraduate School, USA),  
H. Zhang (Carnegie-Mellon U, USA)
- \* Inferring the Origin of Routing Changes using Link Weights  
M. Lad (UCLA, USA), D. Massey (Colorado State U, USA), R. Oliveira,  
L. Zhang (UCLA, USA)
- \* Geographically informed inter-domain routing  
R. Oliveira, M. Lad (UCLA, USA), B. Zhang (U of Arizona, USA),  
L. Zhang (UCLA, USA)
- \* Lexicographic orders in metarouting  
A. Gurney, T. Griffin (U of Cambridge, UK)

17:00-18:00 TPC Meeting  
18:00-20:00 TPC Dinner

Thursday, October 18, 2007

08:00 - 16:00 Registration Open (Outside Treasury Ballroom)  
07:30 - 08:30 Continental Breakfast  
08:30 - 10:00 Session IV --- Wireless LANS

- \* Minimizing Energy Consumption for Bandwidth Throttling Bulk Data  
Communications in WLANs  
E. Tan, L. Guo (Ohio State U, USA), S.Chen (George Mason U, USA),  
X. Zhang (Ohio State U, USA)
- \* Traffic-aware channel assignment in wireless LANS  
E. Rozner, Y. Mehta (U of Texas Austin, USA), A. Akella (U of Wisconsin,  
USA),  
L. Qiu (U of Texas Austin, USA)
- \* Adaptive optimization of rate adaptation algorithms in multi-rate WLANs  
J. Choi, J. Na (Seoul National U, Korea), K. Park (Purdue U, USA),  
C. Kim (Seoul National U, Korea)
- \* Scheduled PSM for minimizing energy in wireless LANS  
Y. He, R. Yuan (Tsinghua U, China)

10:00 - 10:30 Coffee Break (Outside Treasury Ballroom)  
10:30 - 12:00 Poster Session (To be announced)  
12:00 - 13:30 Lunch Break  
13:30 - 15:00 Session V --- Network security

\* Network based and attack resilient length signature generation for zero-day polymorphic worms

Z. Li (Northwestern U, USA), L. Wang (Tsinghua U, China),  
Y. Chen (Northwestern U, USA), Z. Fu (Motorola Labs, USA)

\* A poisoning-resilient TCP stack

Mondal (Northwestern U, USA), A. Kuzmanovic (Northwestern U, USA)

\* Routing amid colluding attackers

J. Eriksson (MIT, USA), M. Faloutsos, S. Krishnamurthy (UC Riverside, USA)

\* An accountability interface for the Internet

A. Argyraki (EPFL, Switzerland), P. Maniatis (Intel Research, USA),  
A. Subramanian (EPFL, Switzerland), S. Shenker (UC Berkeley and ICSI, USA)

15:00 - 15:30 Coffee Break (Outside Treasury Ballroom)

15:30 - 17:00 Session VI --- Streaming and congestion control

\* Improving the convergence and stability of congestion control algorithm  
X. Huang (Tsinghua U, China)

\* An enhancement of TCP friendly rate control over wired/wireless networks  
B. Zhou (Nanyang Technological U, Singapore)

\* A simple model for analysis and design of P2P streaming algorithms  
Y. Zhou, D. Chiu, J. Lui (Chinese U of Hong Kong, China)

\* 45950 Best Effort Session-Level Congestion Control  
S. Ramesh, S. Kasper (U of Utah, USA)

17:00-18:00 PANEL DISCUSSION by NSF

18:00-20:00 Conference Banquet (15th anniversary)

Friday, October 19, 2007

08:00 - 12:00 Registration Open (Outside Treasury Ballroom)

07:30 - 08:30 Continental Breakfast

09:00 - 10:00 Keynote Speech (To be announced)

10:00 - 10:30 Coffee Break (Outside Treasury Ballroom)

10:30 - 12:00 Session VII --- Protocol implementation

\* HEXA: Compact data structures for faster packet processing

S. Kumar, J. Turner, P. Cowley (Washington U, USA), M. Mitzenmacher (Harvard U, USA)

\* A performance study of loss detection/recovery in real world

TCP implementations

S. Rewaskar, J. Kaur, F. Smith (U of North Carolina, Chapel Hill, USA)

\* TCAM Razor: A Systematic approach towards minimizing packet

classifiers in TCAMs

C. Meiners, A. Liu, E. Torng, Y. Zhou (Michigan State U, USA)

\* Building a Network with an Authentic IPv6 Addressing Architecture

J. Wu, G. Ren, X. Li (Tsinghua U, China)

12:00 - 13:30 Lunch Break

13:30 - 15:00 Session VIII --- Firewalls and privacy

\* Design and implementation of cross-domain cooperative firewall

J. Cheng (UCLA, USA), H. Yang (IBM Research, USA), S. Wong, S. Lu (UCLA, USA)

\* FireCracker: A framework for inferring firewall policy using smart probing

T. Samak, A. El-Atawy, E. Al-Shaer (DePaul U, USA)

\* ALARM: Anonymous Location-aided routing in MANETs

K. El Defrawy, G. Tsudik (UC Irvine, USA)

\* Location privacy in sensor networks against a global eavesdropper

K. Mehta, D. Liu, M. Wright (U of Texas Arlington, USA)

15:00 - 15:30 CLOSING

Saturday, October 20, 2007  
08:00 - 17:00 One-day free tour (optional)  
--- The great wall

For more details, please visit <http://www.icnp2007.edu.cn/>

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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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TCDP-announce mailing list  
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<http://tab.computer.org/tcdp/publications.html>

End of TCDP Newsletter, August 2007

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