IEEE HPSR 2014

July, 1-4, 2014   Vancouver, British Columbia, Canada

http://www.ieee-hpsr.org/

2014 IEEE 15th International Conference on High Performance Switching and Routing will be held in Vancouver, British Columbia, Canada from July 1 to July 4, 2014. Vancouver is world renowned for its diversity of many cultures and ethnicities. It is an ideal place for scientists and engineers from around the world to gather and share their ideas. Past HPSR events were held in Heidelberg (2000), Dallas (2001), Kobe (2002), Torino (2003), Arizona (2004), Hong Kong (2005), Poznan (2006), New York (2007), Shanghai (2008), Paris (2009), Dallas (2010), Cartagena (2011), Belgrade (2012), and Taipei (2013). With the unprecedented growth of the Internet as a backbone for communications and information services, it is essential that researchers gather to share their ideas and progress on solving the future challenges that the Internet faces. They include bridging the digital-divide and providing advantages of the Internet to developing countries; handling the bandwidth and delay requirements of multimedia, P2P, and cloud computing applications; implementing IPv6 and migrating from IPv4; deploying large datacenters and enhancing their switching capabilities; and achieving energy efficiency of switching and routing equipment. These are only a few of the topics that have demanded switching and routing capabilities that are more intelligent, efficient, and reliable then ever before. IEEE HPSR 2014 will address the following topics:

- Architectures of high-performance switches and routers
- High-speed packet processors
- Address lookup algorithms
- Packet classification, scheduling, and dropping
- Switching, bridging, and routing protocols
- Latency and buffer control
- Multicasting

- P2P routing
- Routing in wireless, mobile and sensor networks
- Optical switching and routing
- Switching, bridging, and routing in data centers and clouds
- Software defined networking
- Data placement and migration
- Multiprocessor networks

- Network management
- Pricing, accounting, and charging
- QoS and scalability of switching, bridging, and routing
- Traffic characterization and engineering
- Power-aware switching, bridging, and routing protocols
- High-speed network security

Paper submission guidelines: Submitted papers must be unpublished and should not be submitted elsewhere at the same time. Accepted papers should not exceed 6 pages in two-column IEEE Transactions style. Accepted papers longer than 6 pages will be charged $100 for each extra page. Papers cannot be longer than 8 pages. Poster papers are limited to 2 pages in two-column IEEE Transactions style. Papers should be submitted as PDF files through the EDAS system (http://edas.info/N15443). All submitted papers will be subject to three independent reviews.

Note: To be published in the IEEE HPSR 2014 Conference Proceedings and to be eligible for publication in IEEE Xplore®, an author of an accepted paper is required to register for the conference at the full (member or non-member) rate and the paper must be presented by an author of that paper at the conference unless the TPC Chair grants permission for a substitute presenter arranged in advance of the event and who is qualified both to present and answer questions. For authors with multiple accepted papers, one full registration is valid for up to 2 papers.

General Chairs: Ljiljana Trajkovic (Simon Fraser University), Andrzej Jajszczyk (AGH University of Science and Technology)

Technical Program Committee Chairs: Aleksandra Smiljanic (Belgrade University), Rong Pan (Cisco), Ce-Kuen Shieh (National Cheng Kung University)

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Registration and Finance Chair: Steven McClain (British Columbia Institute of Technology)

Publication Chair: Zoran Chicha (Belgrade University)

Local Arrangement Chairs: Paul Zuurbier (MITACS Conference Services), Bridget Erlikh (IEEE Communications Society)

Tutorials Chair: Cyriel Minkenberg (IBM Zurich)

Panel Chair: Mitch Gusat (IBM Zurich)

Important Dates (extended deadlines)

Paper registration: March 2, 2014
Full paper submission: March 2, 2014
Tutorial submission: March 2, 2014
Acceptance notifications: April 20, 2014
Camera-ready paper: May 4, 2014

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