IEEE HPSR 2012

June 24-27
Belgrade
Serbia

http://www.etf.rs/HPSR2012

IEEE Conference on High Performance Switching and Routing 2012 will be held in Belgrade, the capital of Serbia. Belgrade is a lively metropolis that is a blend of different cultures whose representatives were visiting at various points of history. As such, it is very well suited to host the IEEE HPSR conference that gathers scientists and engineers from the entire world, after Heidelberg, Dallas, Kobe, Torino, Arizona, Hong Kong, Poznan, New York, Shanghai, Paris, Dallas (again), and Cartagena. Internet traffic keeps growing thanks to the access technologies whose speeds are increasing at a fast pace, and thanks to many non-profit and commercial efforts to bridge the digital-divide by providing all the advantages of the Internet to developing countries as well. At the same time, challenging applications are gaining popularity on the Internet such as multimedia and P2P applications. Multimedia applications require a lot of bandwidth and low delays, while the traffic patterns of P2P applications are impossible to predict. IPv4 addresses are being exhausted at this very moment. Data centers are moving a vast amount of content through thousands of switches. Also, routers and switches are being attacked, and energy available for them, as for everything else, is decreasing. All these circumstances put a higher burden than ever on switching and routing. So, there is a lot of work to be done, and IEEE HPSR 2012 will do its part by addressing 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

- ❖ Multicasting
- ❖ P2P routing
- ❖ Routing in wireless, mobile and sensor networks
- ❖ Optical switching and routing
- ❖ Switching, bridging and routing in data centers and clouds
- ❖ 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Paper submission guidelines: Submitted papers must be unpublished, and cannot be submitted elsewhere at the same time. Accepted papers should not exceed 6 pages in two-column IEEE Transactions style (www.ieee.org). Accepted papers longer than 6 pages will be charged $100 for each extra page. Papers cannot be longer than 8 pages. Papers should be submitted as PDF files through the EDAS system (http://edas.info). All submitted papers will be subject to three independent reviews.

Awards: The Best Paper Award will be granted based on the reviewers' comments and scores that it received. Presentation of the paper will be scored by the audience, and will influence its final ranking.

Note: In order to publish the paper at the IEEE HPSR 2012 proceedings and IEEE *Xplore*, the paper must be presented at the conference, and at least one of its authors should have a full registration. Non-refundable registration fees must be paid prior to uploading the final IEEE formatted, publication-ready, version of the paper.

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Important Dates

Full paper submission: January 20, 2012
Tutorial submission: January 20, 2012
Acceptance notifications: March 20, 2012
Camera-ready due: April 15, 2012

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