

# IEEE HPSR 2011

July 4 – 6, 2011

Cartagena, Spain



## CALL FOR PAPERS

The 2011 IEEE International Conference on High Performance Switching and Routing (IEEE HPSR 2011) will be held in Cartagena (Spain), in the Spanish Mediterranean coast. The goal of the 12th IEEE HPSR is to bring together researchers, engineers and practitioners from around the world. IEEE HPSR is focused on the technology of high-speed, high-capacity switches and routers, including architectural and algorithmic aspects of high-speed IP networks, possibly adopting optical technologies and wireless user access. The conference solicits high-quality papers reporting original work in both theoretical and experimental research areas. Topics of interest include, but are not limited to:

- High-performance switch and router architectures
- Multicast switching and routing
- Switching in multiprocessor architectures
- Optical circuit/burst/packet switching
- Impairment-aware optical switching fabrics
- Interconnection networks
- Power-aware switching and routing
- Router architectures and protocols
- Routing in mobile, wireless, wireless sensor or peer-to-peer networks
- Cross-layer routing optimization
- Cooperative routing
- Protection and fast recovery
- Packet scheduling algorithms
- MPLS and GMPLS switching and routing
- High-speed network security
- QoS, Traffic engineering and control
- Network management
- Pricing, accounting and charging
- High speed packet processors
- Address look-up algorithms

**Paper Submission Guidelines.** Submitted papers must be unpublished, and must not be currently under review by another journal or conference. All submitted papers will be refereed for quality, correctness, originality and relevance. Submitted paper should not exceed 6 pages in two-column IEEE Transactions style (<http://www.ieee-hpsr.org/content/call.html>). Accepted papers that are longer than 6 pages will be charged with an over-length fee of \$100 per page for the 7th and 8th pages. No paper may be longer than 8 pages. Papers must be submitted electronically as PDF files through the EDAS system (<http://edas.info/>). All submitted papers will be subject to three peer reviews.

**Tutorials.** Proposals are solicited for tutorials. Please contact Nina Skorin-Kapov ([nina.skorin-kapov@fer.hr](mailto:nina.skorin-kapov@fer.hr)) for further information.

**Best Paper Award.** A Best Paper Award and Best Student Paper Award will be granted based on the quantitative and qualitative classifications of the paper as well as comments provided by the program committee reviewers, and their oral presentation at the conference.

**Journal Publication.** Authors of selected papers will be invited to submit an extended version to the Special Issue "Challenges in High-Performance Switching and Routing in the Future Internet" of the Computer Networks journal published by Elsevier.

**Please Note:** To be published in the IEEE HPSR 2011 Conference Proceedings and IEEE *Xplore*<sup>®</sup>, 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 at the conference. Non-refundable registration fees must be paid prior to uploading the final IEEE formatted, publication-ready version of the paper. For authors with multiple accepted papers, one full registration is valid for up to 3 papers.

### General chairs

Andrzej Jajszczyk (AGH University of Science and Technology, Poland)  
Pablo Pavon Mariño (Technical University of Cartagena, Spain)

### Technical Program Committee chairs

Tom Chen (Swansea University, United Kingdom)  
Mohammed Atiquzzaman (University of Oklahoma, USA)  
Joan Garcia Haro (Technical University of Cartagena, Spain)

### Tutorial chair

Nina Skorin-Kapov (University of Zagreb, Croatia)

### Important dates

Full paper submission: January 15, 2011  
Tutorial submission: January 15, 2011  
Acceptance notifications: March 22, 2011  
Camera-ready due: April 11, 2011