

# 8th International Workshop on Design of Reliable Communication Networks

October 10-12, 2011 Krakow, Poland

## Call for Papers

DRCN is a well established biennial forum for scientists, engineers, designers and planners from industry, government and academia who have interests in the reliability and availability of communication networks and services. The conference covers topics from equipment and technology for survivability to network management and public policy, through theory and techniques for survivable and robust networks and application design. The aim of the conference is to bring together people from industry, government and academia in those disciplines in a lively forum. To guarantee the high visibility of the conference, the proceedings will be available through IEEE Xplore. The 8<sup>th</sup> DRCN meeting will be held in Poland and will take place in the historical city of Krakow, October 10-12, 2011. We hope you will join us. The workshop will be enriched by a set of tutorials. Additionally, the best paper award will be granted. Papers of special merit will be considered for a fast track publication in the Computer Communications journal. We seek papers that address theoretical, experimental, systems-related and regulatory issues in the area of dependability and survivability of communication networks, end-systems and infrastructure. Topics of interest include, but are not limited to the following areas:

### Operational aspects

- Fault management, monitoring, and control
- Methodologies, equipment and technology for network survivability
- Survivability of optical and multi-layer networks
- Reliability of wireless access and mesh networking
- Resilient wired access networking
- Dependability of cellular/mobile networks including horizontal handover
- Resilience of multi-domain connections in the Internet
- Reliability of emerging technologies (e.g., network virtualization, thin client architectures)
- Survivability in grid and distributed computing
- Network dependability in cloud computing
- Management of survivable networks

### Services

- Reliability requirements and metrics for individual users, businesses, and the society
- Restoration of services under various types of failures
- Service differentiation based on recovery methods
- Dependability of networked applications
- Recovery of overlay and peer-to-peer networks
- Application and service-specific survivability techniques
- Survivability of multimedia networks including voice over IP, IPTV, and contents delivery
- Reliability and resiliency of data center networks
- Robustness of compound services

### Theory and modeling

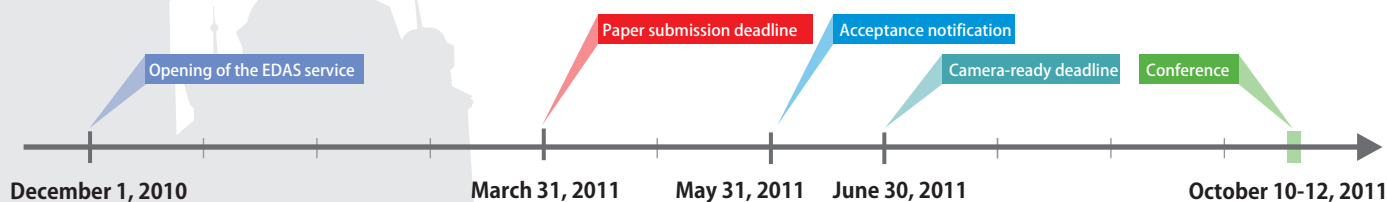
- Network reliability analysis
- Methods and theory for survivable network and systems design, analysis and operation (including scalability and complexity)
- Planning and optimization of reliable networks, systems, and services
- Simulation techniques for network resilience

### Broad context

- Telecommunication networks as an element of critical national infrastructures
- Public policy issues for survivability and resilience
- Standardization of network resilience and reliability
- Network resilience combined with economics and commercial issues
- Quality of experience and network survivability
- Security issues in networks and their relation to survivability
- Dependability and energy consumption trade-offs
- Risk and reliability in the Internet and enterprise networks
- New and emerging threats

### Manuscript Submission

All papers must be submitted electronically by EDAS as PDF files, formatted according to the IEEE publisher format, and must not exceed 8 double column pages. All accepted contributions will be full papers with oral presentations. The papers will be published in electronic conference proceedings and by IEEE Xplore. If you have any questions and problems on submission, please do not hesitate and e-mail [conference@drcn2011.net](mailto:conference@drcn2011.net).



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