

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 8th 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

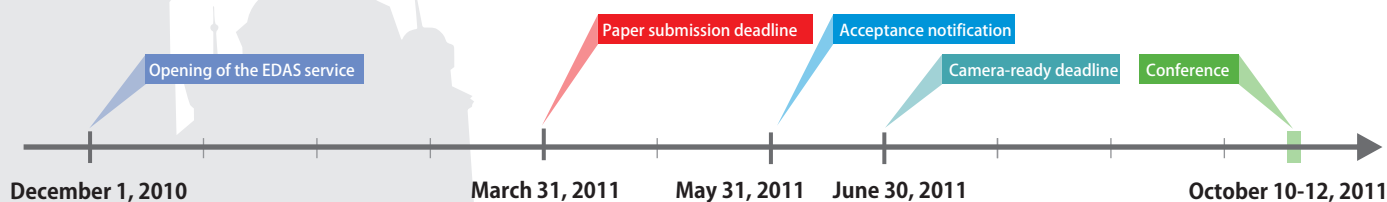
- Network reliability analysis
- Methods and theory for survivable network and systems design, analysis and operation (including scalability and complexity)
- Planning and optimization of reliable networks, systems, and services
- Simulation techniques for network resilience

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.



Organization & Executive Committee

General Chair

Andrzej Jajszczyk, AGH University of Science and Technology, Poland

Steering Committee

Piet Demeester (Steering Committee Chair), Ghent University - IBBT - IMEC, Belgium
 Prosper Chemouil, Orange Labs, France
 Tibor Cinkler, Budapest University of Technology and Economics, Hungary
 Roberto Clemente, Telecom Italia, Italy
 Robert Doverspike, AT&T Labs, USA
 Joerg Eberspaecher, Technical University of Munich, Germany
 Wayne D. Grover, TRILabs, University of Alberta, Canada
 Andrzej Jajszczyk, AGH University of Science and Technology, Poland
 Deep Medhi, University of Missouri-Kansas City, USA
 Ken-ichi Sato, Nagoya University, Japan
 Dominic Schupke, Nokia Siemens Networks, Germany
 David Tipper, University of Pittsburgh, USA

Technical Program Committee Chairs

Piotr Cholda, AGH University of Science and Technology, Poland
 Jarne E. Helvik, Norwegian University of Science and Technology, Norway

Technical Program Committee

Nail Akar, University of Missouri-Kansas City, USA
 Chadi Assi, Concordia University, Canada
 Achim Autenrieth, ADVA Optical Networking, Germany
 Thomas Bauschert, Chemnitz University of Technology, Germany
 Walid Ben-Ameur, Institut TELECOM, France
 Dariusz Bursztynowski, Orange, Poland
 Eusebi Calle, University of Girona, Spain
 Rocky K. C. Chang, The Hong Kong Polytechnic University, P.R. China
 Prosper Chemouil, Orange Labs, France
 Chi-Ming Chen, AT&T, USA
 Roberto Clemente, Telecom Italia, Italy
 Didier Colle, Ghent University, Belgium
 Emmanuel Dotaro, Thales Communications, France
 John Doucette, University of Alberta & TRILabs, Canada
 Robert Doverspike, AT&T Labs, USA
 Joerg Eberspaecher, Technical University of Munich, Germany
 Georgios Ellinas, University of Cyprus, Cyprus
 Nelson L. S. da Fonseca, State University of Campinas, Brazil
 Andrea Furnagalli, The University of Texas at Dallas, USA
 Maurice Gagnaire, TelecomParis, France
 Yashar Ganjali, University of Toronto, Canada
 Nasir Ghani, University of New Mexico, USA
 Stefano Giordano, University of Piza, Italy
 Eric Gourdin, Orange Labs, France
 Ashwin A. Gumaste, Indian Institute of Technology Bombay, India
 Mohan Gurusamy, National University of Singapore, Singapore
 Anwar Haque, Bell, Canada
 Hiroshi Hasegawa, Nagoya University, Japan
 Meir Herzberg, ECI Telecom, Israel
 Yutaka Ishibashi, Nagoya Institute of Technology, Japan
 Monika Jaeger, T-Systems, Germany
 Brigitte Jaumard, Concordia University, Canada

Noriaki Kamiyama, NTT, Japan
 Sun-il Kim, University of Alaska, USA
 Andreas Kind, IBM, Switzerland
 Arie Koster, RTWH, Germany
 Taekyoung Kwon, Seoul National University, Republic of Korea
 Dion Leung, Tellabs, USA
 Gregory Levitin, The Israel Electric Corporation Ltd., Israel
 Lorne Mason, McGill University, Canada
 Deep Medhi, University of Missouri-Kansas City, USA
 Darli A. Mello, University of Brasilia, Brasil
 Michael Menth, University of Tuebingen, Germany
 Biswanath Mukherjee, UC Davis, USA
 Masayuki Murata, Osaka University, Japan
 Hajime Nakamura, KDDI R&D Laboratories Inc., Japan
 Maurizio Naldi, University of Rome Tor Vergata, Italy
 Ilkka Norros, VTT Technical Research Centre of Finland, Finland
 Sangheon Park, Korea University, Republic of Korea
 Radia Perlman, Intel Labs, USA
 Mario Pickavet, Ghent University, Belgium
 Michal Pióro, Warsaw University of Technology, Poland
 Jacek Rak, Gdansk University of Technology, Poland
 George Rouskas, North Carolina State University, USA
 Sarah Renee Ruepp, Technical University of Denmark, Denmark
 Jason W. Rupe, Qwest Communications, USA
 Brunilde Sansò, Ecole Polytechnique de Montréal, Canada
 Dominic Schupke, Nokia Siemens Networks, Germany
 Shoichiro Seno, Mitsubishi Electric Corporation, Japan
 Gangxiang Shen, Soochow University, P.R. China
 Kohei Shiimoto, NTT, Japan
 Salvatore Spadaro, Universitat Politècnica de Catalunya, Spain
 James Sterbenz, The University of Kansas, USA
 Suresh Subramaniam, George Washington University, USA
 Neeraj Suri, Technical University of Darmstadt, Germany
 Janos Tapolcai, Budapest University of Technology and Economics, Hungary
 David Tipper, University of Pittsburgh, USA
 Massimo Tornatore, Politecnico di Milano, Italy
 Kishor Trivedi, Duke University, USA
 Luca Valcarenghi, Scuola Superiore Sant'Anna, Italy
 Jean-Philippe Vasseur, Cisco, USA
 Dominique Verchere, Alcatel-Lucent Bell Labs, France
 Martin Vigoureux, Alcatel-Lucent Bell Labs, France
 Krzysztof Walkowiak, Wroclaw University of Technology, Poland
 Lena Wosinska, KTH - Royal Institute of Technology, Sweden
 Miki Yamamoto, Kansai University, Japan
 Katsunori Yamaoka, Tokyo Institute of Technology, Japan
 Jennifer Yates, AT&T Research, USA
 Marat Zhanikeev, Waseda University, Japan
 Wen-De Zhong, Nanyang Technological University, Singapore
 Yanmin Zhu, Shanghai Jiao Tong University, P.R. China

Local Organizing Committee, AGH University of Science and Technology, Poland

Joanna Dukat, Administration
 Joanna Putala, Local Arrangements
 Dorota Tischner, Finance Chair
 Rafal Stankiewicz, Publication
 Bartosz Polaczyk, Graphics
 Piotr Wydrych, Web