

CALL FOR PAPERS

16th International Conference on Design of Reliable Communication Networks

<http://www.drcn2020.polimi.it>

March 25-27, 2020 – Milan, Italy.

IMPORTANT DATES

Submission deadline (**EXTENDED**): **November 10, 2019**

Notification of acceptance: **December 15, 2019**

Camera Ready Papers: **January 7, 2020**

Technically Co-Sponsored by IEEE ComSoc

SCOPE

Since its creation in 1998, the *International Conference on the Design of Reliable Communication Networks (DRCN)* has become over the years a well-established forum for scientists from both industry and academy who have interest in reliability and availability of communication networks, and related resilience topics. The aim of the conference is to bring together people from various disciplines, ranging from engineering of survivable equipment and network technologies to network management and monitoring, through methods and models for survivable and robust network design. As such, DRCN is a well-known forum for presenting excellent results and new challenges in the field of reliable communication networks and services.

We are pleased to invite you to contribute and participate in the 16th edition of DRCN in Milan, Italy, on March 25-27, 2020.

Topics of interest for submission include, but are not limited to:

- Resilience in 5G networks and services
- Ultra-Reliable Low Latency Communications (URLLC)
- Design of resilient and reliable IoT systems
- Resilience in Software-Defined Networking (SDN)
- Secure and reliable quantum communication
- Resilience in satellite communication networks
- High-availability for Network Functions Virtualization (NFV) infrastructures
- Network dependability in cloud networking
- Dependability and reliability of wireless/cellular/mobile networks
- Resilience in FSO/VLC communications
- Survivability and traffic engineering for optical, IP and multi-layer networks
- Robustness of multi-domain networks
- Survivability in grid and distributed computing
- Reliability and resiliency of data center networks
- Recovery of overlay and peer-to-peer networks
- Risk and reliability in the Internet and enterprise networks
- Communication reliability for smart city applications and intelligent transport systems
- Methods for survivable network and systems design, analysis and operation
- Planning and optimization of reliable networks, systems, and services
- Network reliability analysis
- Reliability and robustness of networks optimized and managed based on AI/ML techniques

- Data analytics and Machine Learning for fault diagnosis
- Network coding techniques to improve resilience
- Service differentiation based on recovery methods
- Simulation techniques for network resilience
- Quality of Experience (QoE) and network service availability assessments
- Reliability requirements and metrics for users, businesses, and the society
- Robustness of compound services
- Resilience of networked critical infrastructures
- Network robustness to natural disasters
- Robust network design for hostile environments
- Security issues in networks and their relation to survivability
- Network dependability and energy consumption trade-offs
- Network resilience combined with economics and commercial issues
- Standardization of network resilience and reliability
- Public policy issues for survivability and resilience

PAPER SUBMISSION

The authors are invited to submit high-quality original technical papers for presentation at the conference and publication in the DRCN 2020 Proceedings.

Only PDF files will be accepted for the review process and all submissions must be done electronically through EDAS: <https://edas.info/N26558>

All submissions must be written in English and must use standard IEEE two-column conference templates that can be downloaded from:

<https://www.ieee.org/conferences/publishing/templates.html>.

Papers should be maximum 6 page long and minimum 4 page long, including tables, figures and references.

Accepted papers longer than 6 pages will be charged for each extra page. Papers cannot be longer than 8 pages.

At least one author of each accepted paper is required to register to DRCN 2020 to have his/her paper published in the conference proceedings. The paper must be presented at the conference by one author to be submitted for publication in IEEE Xplore.

Please contact massimo.tornatore@polimi.it if you have any questions about submitting your manuscript.

Most highly-scored paper will be invited to submit their work to IEEE Transactions on Network and Service Management

VENUE

The conference will take place at Politecnico di Milano, Milan, Italy.

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Tutorial Submission Guidelines

DRCN 2020 seeks quarter-day (2 hours) tutorial proposals on new and emerging topics within the scope of the conference (please refer to the conference *Call for Papers* for a list of possible topics). The proposal (maximum 5 pages) should concisely describe the content and objectives of the tutorial, and must include:

- Title of the tutorial;
- Abstract, objectives, and motivation;
- Name, affiliation, and a short biography of each tutorial speaker;
- A description of the technical issues that the tutorial will address, emphasizing its timeliness;
- An outline of the tutorial content;
- If appropriate, a description of the past/relevant experience of the speaker(s) on the topic of the tutorial;
- A description of previous tutorial experience of the speaker(s), and past versions of the tutorial;

Proposals should be submitted in a single PDF file, not exceeding 5 pages, by email to the **Tutorial Chair Giorgio Parladori** <Giorgio.Parladori@sm-optics.com>.

Submission deadline : December 10

Notification of acceptance : December 20

Questions regarding DRCN 2020 Tutorials should be directed to the Tutorial Chair Giorgio Parladori <Giorgio.Parladori@sm-optics.com> and the General Co-Chair Guido Maier <guido.maier@polimi.it>.