

CALL FOR PAPERS

19th International Conference on the Design of Reliable Communication Networks Technically Co-Sponsored by IEEE Communications Society (IEEE ComSoc)

<https://drcn2023.upc.edu>

April 17-20, 2023 – Vilanova i la Geltrú, Barcelona, Spain

GENERAL CALL FOR CONTRIBUTION

The *International Conference on the Design of Reliable Communication Networks (DRCN)* has been held for more than 20 years to address topics related to the reliability and availability of communication networks, and has grown to become *the* meeting place where researchers from both industry and academia get together to advance the state-of-the-art in the field. The DRCN conference has always been a multidisciplinary forum bringing together scientists from diverse fields including engineering of survivable equipment and network technologies, network management and monitoring, and data analytics for fault diagnosis. The 19th edition of the conference will be held in Vilanova i la Geltrú, Spain, from April 17-20, 2023. We are pleased to invite you to contribute and participate in DRCN 2023 encouraging you to submit novel and high quality work to the conference.

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

- Resilience in 5G/6G networks and services
- Ultra-Reliable Low Latency Communications (URLLC)
- Deterministic and time sensitive networkin
- Design of resilient and reliable IoT systems
- Reliable SASE architectures
- Resilience in Software-Defined Networking (SDN)
- Secure and reliable quantum communications
- Resilience in extraterrestrial communication networks
- High-availability for Network Functions Virtualization (NFV) infrastructures
- Network dependability in cloud computing
- 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, high performance 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 systems (cities, transport, logistics, etc.).
- Methods for survivable network and systems design, analysis and operation
- Planning and optimization of reliable networks, systems, and services
- Network reliability analysis and modelling
- Reliability and robustness of networks optimized and managed based on AI/ML techniques
- Data analytics and machine learning algorithms for fault diagnosis
- Coding techniques to improve resilience in communications
- Service differentiation based on recovery methods
- Simulation techniques and tolos 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
- Integration of satellite services for critical applications
- Resilience towards business continuity management
- Network robustness in response to natural and man-made disasters
- Network security issues in the context of reliability and survivability
- Network dependability and energy consumption trade-offs
- Network resilience combined with pricing and economics
- Standardization of network resilience and reliability
- Public policy for survivability and resilience
- Design and test of reliable operational technology (OT) networks
- Network reconfiguration and reinforcement for reliability

SUBMISSION GUIDELINES

The authors are invited to submit high-quality original technical papers for presentation at the conference and publication in the DRCN 2023 Proceedings, describing original, unpublished research results, not currently under review by another conference or journal, addressing forefront research and development in the area of reliable networks. Papers should be in English, and should follow the standard [IEEE conference style](#).

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

Papers should be prepared using the IEEE 2-column conference style and should be between 5 and 8 pages long, including tables, figures and references. Papers exceeding page limits, multiple submissions, and self-plagiarized papers will be rejected without further review. All other papers will sustain a thorough single-blind review process.

Authors must submit their papers electronically through EDAS using the following link:
<https://edas.info/newPaper.php?c=30008&track=113742>

All accepted and presented papers will be included in DRCN 2023 proceedings. At least, one author is required to register, at the full rate, to present accepted papers at the conference and for the paper to appear in DRCN 2023 proceedings

For specific details about submission format and procedure, please check <https://drcn2023.upc.edu/Regular-papers-submission-guidelines.html>. Please contact eva.rodriquez@upc.edu if you have any question about submitting your manuscript to DRCN 2023.

IMPORTANT DATES

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| • Paper submission deadline: | December 1, 2022 |
| • Notification: | February 1, 2023 |
| • Camera ready paper: | February 10, 2023 |