

IFIP Networking 2023

Barcelona (Spain), June 12-15, 2023

<https://networking.ifip.org/2023/>

CALL FOR PAPERS

The International Federation for Information Processing (IFIP) Networking 2023 Conference (IFIP NETWORKING 2023) will be held at the Universitat Politècnica de Catalunya, in the beautiful city of Barcelona, Spain. This is the 22th event of the series, sponsored by the IFIP Technical Committee on Communication Systems (TC6). Accepted papers will be published in the IFIP Digital Library and indexed by the IEEE Xplore Digital Library. High quality papers will be recommended for fast-track publications in selected journals.

The main objective of Networking 2023 is to bring together members of the networking community, from both academia and industry, to discuss recent advances in the broad and quickly-evolving fields of computer and communication networks, to highlight key issues, identify trends, and develop a vision for future Internet technology, operation, and use.

The technical sessions will be structured around, but are not limited to, the following areas (in alphabetical order):

- 5G/6G networks and beyond
- Anomaly and malware detection
- Anonymization
- Applications of privacy-preserving computation in networks
- Blockchain, ledger technologies, and their network-related applications
- Complex and dynamic networks
- Containerized network functions
- Data center networking
- Data-driven network design
- Delay/disruption tolerant networks
- Device-to-device communications
- Drone networking and unmanned technology-based services and applications
- Emerging value-added services and applications
- Evolution of IP network architectures and protocols
- Fog and edge computing
- Green networking
- Heterogeneous and integrated networks
- In-network computing
- Internet of Things (IoT), and crowdsensing/crowdsourcing
- Localization and positioning
- Long-range communications
- Machine learning (ML) and networking, artificial intelligence (AI) and networking
- (Multi-tenant) network slicing
- mmWave, VLC and THz communications
- Multi-antenna technologies (MIMO, massive MIMO, distributed MIMO, etc.)
- Network architectures, applications, and services
- Network attack/intrusion detection and mitigation
- Network automation and management
- Network economics
- Network forensics
- Network function virtualization (NFV)
- Network modelling, analysis, and measurement
- Network performance and optimization
- Network security, authentication, measurement, trust and privacy
- Network testbeds
- Network traffic analysis

- Non-terrestrial networks
- Opportunistic networks
- Optical networking
- Overlay and P2P networks
- Participatory networks
- Performance measurements
- Protective and collaborative networking
- Reflective Intelligent Surfaces
- Resilient networks
- Quality of service (QoS), quality of experience (QoE)
- Quantum networking, quantum communications
- Resource management
- Self-organizing networks
- Situational awareness, threat intelligence
- Social networking
- Socio-economic aspects of networks, pricing and billing
- Software-defined networking (SDN)
- Traffic engineering
- Topology characterization
- Traffic monitoring and analysis
- Trustworthy and multi-metric routing
- User behaviour modelling, user profiling and tracking
- Vehicular networks and communications
- Visible light communications
- Web technologies
- Wireless and mobile networks
- Wireless power transfer networks
- Wireless sensor networks

The Conference Program will include plenary sessions, break-out sessions, keynote talks, a panel, a poster/demo session and a workshop day.

ORGANISATION COMMITTEE

General chairs

Davide Careglio, Universitat Politècnica de Catalunya, Spain

Jordi Domingo-Pascual, Universitat Politècnica de Catalunya, Spain

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Henning Schulzrinne, Columbia University, USA

Burkhard Stiller, University of Zurich, Switzerland

Joerg Widmer, IMDEA Networks, Spain

IMPORTANT DATES

Deadlines are at 23:59 Anywhere on Earth

Full paper submission: **January 30, 2023**

Notification of acceptance: **March 31, 2023**

Camera-ready version: **May 2, 2023**

Full Event: **June 12-15, 2023**

SUBMISSION GUIDELINES

The technical program committee welcomes paper submissions on all topics related to computer and communication networks. All submitted papers will be judged based on their quality and relevance through **double-blind peer review**, where the identities of the authors are withheld from the reviewers and the identities of reviewers are withheld from the authors. Papers that do not conform to our double-blind submission policies will be rejected without review.

Only original papers that have not been published or submitted for review elsewhere will be considered. Submitted papers should be written in English by following the **IEEE conference format**, with a maximum length limit of **9 printed pages**, including all the figures, references, and appendices. Papers longer than 9 pages will not be reviewed. Each paper can be accompanied by an appendix of at most 2 pages. However, the reviewers are not obliged to read the appendix.

All papers must be submitted in the Portable Document Format (PDF) electronically using EDAS: <https://edas.info/N30169>. When submitting a paper, its title, all co-authors, and a concise abstract of up to 200 words should be provided to EDAS as the metadata of the paper.

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Instructions on preparing a paper for double-blind review

- Remove the names and affiliations of authors from the title page.
- Remove acknowledgments.
- Remove project titles or names that could be used to trace back to the authors via web search.
- Carefully name your files to anonymize author information.
- Carefully refer to related work, particularly your own. Do not omit references to provide anonymity, as this leaves the reviewer incapable of grasping the context. Instead, reference your past work in the third person, just as you would any other piece of related work by another author. For example, instead of "In prior work [1], we presented a scheme that...", sentences in the spirit of "In prior work, Clark et al. [1] presented a scheme that..." should be used. With this method, the full citation of the referred paper can still be given, such as "[1] A. Clark, "Analysis of...", and it is not acceptable to say "[1] Reference deleted for double-blind review."
- The submitted manuscript (PDF file) should be text-searchable. Any submission that does not meet this requirement may be returned without review.
- Many of the editing tools automatically add metadata to the generated PDF file containing information that may violate the double blind policy. Please remove any possible metadata that can link your manuscript to you. This includes removing names, affiliation, license numbers etc. from the metadata as well as from the paper. Failing to meet this requirement may also lead to a rejection without review.

At least one author of each accepted paper is required to register for the conference at the full (member or non-member) rate and the paper must be presented by an author of that paper at the conference unless the TPC co-chairs grant permission for a substitute presenter before the conference. Non-refundable registration fees must be paid prior to uploading the final correctly formatted, publication-ready version of the paper. Accepted and presented papers will be published in the IFIP Digital Library and the IEEE Xplore Digital Library. To ensure appropriate consideration of conflicts of interest during the review process, changes to the list of authors are prohibited once a paper has been submitted for review. Should a paper be accepted, the complete list of authors, including the order of authors, must remain identical as the EDAS metadata in the final camera-ready manuscript.