CALL FOR PAPERS

IFIP Networking 2020 Conference
Paris, France, June 23-25, 2020

The International Federation for Information Processing (IFIP) Networking 2020 Conference (NETWORKING 2020) will be held in Paris, France. This is the 19th 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 submitted to the IEEE Xplore Digital Library. High quality papers will be recommended for fast track publications in selected journals.

The main objective of Networking 2020 is to bring together academic and industrial experts of the networking community to discuss the most recent advances in networking, to highlight key issues, identify trends, and develop a vision of the future Internet from a design, deployment and operation standpoints. Networking 2020 technical sessions will be structured around the following yet non limitative areas:

➢ Network Architectures, Applications and Services
- Network automation techniques, including (but not limited to) policy-based network management, software-defined networking (SDN), dynamic policy enforcement and resource allocation schemes, dynamic service parameter negotiation frameworks, and feedback mechanisms
- Artificial intelligence applied to networking: dynamic resource negotiation and provisioning, dynamic service structuring (orchestration) and delivery
- Service function chaining
- Data center networking; fog, edge and cloud computing design and operation
- (Multi-tenant) networking slicing, from slice parameter negotiation to provisioning and operation
- Drone networking and related unmanned technology-based services and applications
- Protective and collaborative networking: dynamic threat anticipation and mitigation, dynamic attack mitigation practices, inter-DDoS Service Provider (DPS) collaboration, collaborative autonomous and SDN networking
- Transactional networking: attack-proof and resiliency techniques applied to financial networking, inter-domain banking services
- Internet of Things (IoT): cross-platform IoT service design, delivery and operation
- Privacy-based networking: multi-metric routing schemes, resiliency designs
- Quantum communications: automated key allocation schemes, quantum key exchange in various networking environments (satellite, optical)
- Tbit/s optical and wireless networking
- Overlay and P2P networks
- Evolution of IP network architectures and protocols
- Green networking

- Resilient networks
- Traffic engineering
- Quality of Service
- Emerging value-added services and applications
- Network Modeling, Analysis and Operation
  - Topology characterization
  - Performance measurements
  - Traffic monitoring and analysis
  - Use behavior modeling
  - Quality of Experience
  - Data-driven network design
  - User profiling and tracking
  - Complex and dynamic networks
  - Analysis of participatory networks
  - Social networks
  - Socio-economic aspects of networks, pricing and billing
  - Network Neutrality
- Network Security and Privacy
  - Network security protocols
  - Trust and privacy
  - Anomaly and malware detection
  - Denial-of-service detection and mitigation
  - Network forensics
  - Authentication
  - Applications of privacy-preserving computation in networks
  - Anonymization
  - Dependability
  - Situational awareness
  - Threat intelligence
  - Blockchain, ledger technologies and their applications
- Wireless Networking
  - 5G access networks
  - Long-range communication
  - Ad-hoc and mesh networks
  - Mobile networks, self-organizing networks
  - Wireless sensor networks
  - Visible light communication
  - Localization
  - Delay/disruption tolerant networks
  - Opportunistic networks
  - Wireless power transfer networks
  - Device-to-device communication
  - Vehicular networks

Submission Guidelines

Networking 2020 welcomes paper submissions on all topics related to computer and communication networks. Only original papers that have not been published or submitted for review elsewhere will be considered. Submitted papers should be written in English, with a maximum length limit of 9 printed pages, including all figures, references, and appendices.

An author of an 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 a written request before the conference for a substitute presenter to TPC Co-Chairs with compelling reasons is granted.

IMPORTANT DATES

Title/Abstract submission: Dec 31, 2019
Full paper submission: Jan 7, 2020
Notification of acceptance: Apr 1, 2020
Camera-ready version: May 7, 2020
Conference: Jun 23-25, 2020

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