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COMMUNICATIONS FOR CONNECTING HUMANITY



CALL FOR PAPERS

NEXT GENERATION NETWORKING AND INTERNET SYMPOSIUM

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Scope and Topics of Interest

Recent advances in computer networking and telecommunication technologies have provided unprecedented opportunities for various modern services and applications over the Internet, while many new issues and challenges are emerging. Of particular importance of next-generation networks and Internet, the cutting-edge topics are in Network Function Virtualization (NFV), Software Defined Networks (SDN), mobile cloud, fog and edge network computing, ultra-low latency networks, heterogeneous networks, content-centric networks, protocol scalability, services and applications, security, manageability, dependability, and performance predictability, just to name a few. Many prominent issues are affecting the next-generation broadband wireless networks, such as network density, self-organization, spectrum agility, energy efficiency, mobile cloud and fog services, mobility management and indoor localization. This Next Generation Networking and Internet Symposium at ICC 2018 aims to solicit, consolidate and disseminate the latest advances and developments in these emerging focused areas. This symposium invites the participation from academia, industry, and government experts to exchange new ideas and results on next-generation networking and Internet theories, architectures, algorithms, protocols, technologies, and services. This symposium will provide an international forum for researchers to get together, to present the latest snapshot of the cutting-edge research, as well as to shed light on future directions in these areas. Authors are invited to submit papers presenting novel technical studies as well as broader position and vision papers on next generation networking and Internet. Topics of interest for the Next Generation Networking and Internet Symposium include, but are not limited to:

- Addressing and naming with the presence of mobility and portability
- Centralized-RAN and Cloud-RAN architectures
- Cloud-based networking
- Content-centric networking: caching, naming, distribution, load balancing, resiliency
- Converged networks and applications
- Free space optical (FSO) networks and Visible light communication (VLC)
- Future Internet and next-generation networking architectures
- Heterogeneous multi-layer and multi-domain wireless-wireline internetworking
- High speed and parallel processing architectures for next generation routers and switches
- Indoor localization and navigation Internet economics, pricing, accounting, and growth modelling
- Internet of Things (IoT), M2M, D2D, MTC

- Internet survivability and network resilience strategies
- Mobile cloud, fog, and edge networks
- Mobile security: device, application, data, and content
- Network and service virtualization
- Next-generation access networks
- Next-generation anomaly, intrusion, and attack detection/prevention
- Next-generation flow management: resource sharing, congestion control
- Next-generation Internet applications and services, including interactive media, voice and video, games, virtual reality, and immersive applications
- Next-generation IP multimedia subsystem: architecture and design
- Next-generation network management and control
- Operational and research issues with IPv6
- Overlay and peer-to-peer (P2P) networking
- Packet classification and forwarding mechanisms at ultra-high link rates (terabits)
- Quality of Service (QoS) and Quality of Experience (QoE) in next-generation networks
- Self-protection and self-organization networking
- Software Defined Networking (SDN)
- Software Defined Radio (SDR) and Cognitive Radio networks
- Terahertz wireless communications
- Traffic measurement, analysis, modeling, visualization, and engineering
- Vehicular networks

Submission Guidelines

The IEEE ICC 2018 website provides full instructions on how to submit papers & the paper format.

You will select the desired symposium when submitting.

The paper submission deadline is October 15, 2017.

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