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The first International Conference on Transformative Technologies "ICTT'24"

NEXT-GENERATION NETWORKING AND INTERNET SYMPOSIUM

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SCOPE AND MOTIVATION

Recent years have witnessed unprecedented advances in next-generation Internet-networking research. This research addresses many innovations spurred by high-performance computing, programmable network equipment, and computing harvesting next-generation services. By leveraging Software-Defined Networking (SDN), Network Function Virtualization (NFV), and Mobile Edge Computing (MEC), communication networks can handle network functions implemented as virtualized machines more agilely. Communication devices can host advanced applications, and data centers can be pervasively distributed down to network access points. Various significant issues affect next-generation networks, such as network densification, network slicing, mobile cloud computing, mobility management, cross-layer activities, self-organization, security, performance predictability, and energy-efficient operations.

The Next Generation Networking and Internet (NGNI) Symposium at ICCT 2024 aims to consolidate and disseminate the latest developments and advances in these emerging focus areas. This symposium invites participation from academic, industry, and government researchers working in the broad area of next-generation networking and the Internet. The NGNI Symposium will provide a forum for researchers to present the latest snapshot of cutting-edge research and to foster technical debate on future directions in this exciting area..

TOPICS OF INTEREST

The Next Generation Networking and Internet (NGNI) Symposium seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Addressing and naming with the presence of mobility and portability
- Centralized-RAN, Could-RAN, and Fog-RAN architectures
- OpenRAN,Zero-touch Networks
- Software Defined Perimeter (SDP) and Zero Trust,Cloud-based networking
- Content-centric networking: caching, naming, distribution, load balancing, resiliency, traffic engineering, and congestion control
- Progress on network slicing standardization (e.g. 3GPP, GSMA, etc.).
- Free Space Optical (FSO) networks and Visible Light Communication (VLC) in next-generation Internet
- Quality of Service (QoS) and Quality of Experience (QoE) in next-generation networks
- Converged networks and applications, including NGN telecom converged management mechanism for RAN and mobile backhaul
- Data center network architectures and performance, Energy-efficient green communications
- 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
- Internet economics, pricing, accounting, and growth modelling
- Internet of Things (IoT), M2M, D2D, MTC
- Internet survivability and network resilience strategies
- Mobile Cloud Computing (MCC) and Multi-access Edge Computing (MEC) in next-generation Internet
- Mobile security: device, application, and data, Mobile/wireless content distribution
- Network and service virtualization, Networking for Cloud and Fog computing
- Network Slicing Software Defined Networking (SDN), Network Function Virtualization (NFV)
- Software Defined Radio (SDR) and cognitive radio networks in next-generation Internet
- Blockchain for network and service management
- Next-generation access networking, Next-generation anomaly, intrusion, and attack detection/prevention

HOW TO SUBMIT A PAPER

All papers for technical symposia should be submitted via EasyChair. Full instructions on how to submit papers and important deadlines are posted at: https://colloque-cybersecurite.esaip.org/