



Call for Papers

Communication Software and Multimedia Symposium

Symposium Co-Chairs

- **Éric Renault, ESIEE Paris – Université Gustave Eiffel, France** - eric.renault@esiee.fr
- **Liang Zhou, Nanjing University of Posts and Telecommunications, China** - liang.zhou@njupt.edu.cn

Scope and Motivation

The technological evolution of communication networks, moving from a mainly material and physical network to an essentially software and virtual network, has allowed the emergence of new types of services and greater ease for their development and deployment, including MEC, SDV, NFV and more recently AI, slicing and intents.

Communication Software and Multimedia Symposium is a significant event that aims to showcase cutting-edge research and development related to the intricate and challenging issues surrounding software design, deployment, delivery, and management of services and multimedia applications. This symposium is a unique platform that brings together experts from academia and industry to present their latest findings, share their knowledge and engage in lively discussions about current and emerging trends in communication software and multimedia technologies.

As Colorado is a national hub for the Cable, Space, and Satellite Communication Industries, submissions on topics of interest to these industries are especially encouraged.

Topics of Interest

The Communication Software and Multimedia Symposium covers challenges and advances for network softwarization and enablers, service delivery, management, and multimedia applications in fixed and mobile communication networks. The symposium solicits original contributions in the following topics:

Network Softwarization and Services

- Network function virtualization
- Software defined networking
- Virtualization technologies/techniques
- Mobile multi-access edge and fog computing
- Security and privacy issues in virtualized environments
- Slice programmability, modeling, composition algorithms and deployment
- Intent-Based Networking (IBN)

Quality in Services and Multimedia Applications

- Quality of Experience (QoE) modelling and metrics
- Adoption of QoE metrics and models for assessment, control and management of multimedia services
- Video quality assessment and impairment concealment
- Performance studies of digital media ecosystem

Multimedia Systems and Services

- Multimedia cloud services
- Multimedia streaming, multicast and broadcast services
- Virtual/augmented/mixed reality
- Multimedia security and privacy

Service Management

- Scalability and reliability issues
- Context awareness and personalization
- Next generation services and emerging threats
- Cross-layer optimization for multimedia service support

Important Dates

Paper Submission: 11 October 2023

Notification: 18 January 2024

Camera Ready and Registration: 15 February 2024

How to Submit a Paper

All papers for technical symposium should be submitted via EDAS. Full instructions on how to submit papers are provided on the IEEE ICC 2024 website: <https://icc2024.ieee-icc.org/>

Journal Publication Opportunity

The authors of selected papers from this symposium will be invited to submit an extended version of their work for fast-track review and possible publication in the IEEE Open Journal of the Communications Society.