Call for Papers
Communication Software, Services, and Multimedia Application Symposium

SYMPOSIUM CO-CHAIRS:

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SCOPE AND MOTIVATION:
IEEE GlobeCom 2019 will be held at Big Island, Hawaii, USA, 9-13 December 2019. It will exhibit an exciting technical program including more than 10 Symposia highlighting recent progress in all major areas of communications.

The Communication Software, Services, and Multimedia Application Symposium will provide a platform to present state-of-the-art research work on challenging issues related to software design, deployment, delivering, and management of services and multimedia applications. It will also provide an opportunity for face-to-face discussions and information sharing among experts from both academia and industry.

The symposium is sponsored by IEEE ComSoc Communication Software (TCCS) and Multimedia Communications (MMTC) technical committees.

MAIN TOPICS OF INTEREST:
The Communications Software, Services, and Multimedia Application 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, but not limited to, the following topical areas:

- **Network Softwarization & Services**
  - Network function virtualization
  - Service function chaining
  - Resource sharing & isolation
  - Software defined networking
  - Virtualization technologies/techniques
  - (mobile/multi-access) edge and fog computing
  - MEC-, SDN-, NFV-based network services
  - Service, slice, and infrastructure monitoring
Performance, interoperability, and scalability challenges/issues
Security and privacy issues in virtualized environments
Mobile core networks and their slicing
Slice programmability, modeling, composition algorithms and deployment
Network/service orchestration and management
Experimental testbeds, trials and deployment
Business models & new verticals
Model and delivery platforms
Scalable video delivery
Cooperative networking for streaming media content
Service overlay networks
Massive network data analytics
Machine learning for network service enhancement
Proactive management of the softwarized network infrastructures
Distributed systems and applications, including Grid Services
Convergence of communication and global services
Communications software in vehicular communications
Architectures for cooperative communications and ubiquitous computing
Software Defined Radio Access Network (RAN)

• 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
  Strategies of End-to-End QoE management
  Quality-oriented routing algorithms
  Video quality assessment and impairment concealment
  Performance studies of digital media ecosystem
  High quality service provisioning for multimedia applications

• Multimedia Systems and Services
  Multimedia cloud services
  Multimedia streaming, multicast and broadcast services
  Web Services and distributed SW technology
  IMS and multimedia services o Home and entertainment digital media ecosystem
  IPTV service and home networking
  Triple and Quadruple play services
  P2P and P2P-SIP services
CALL FOR PAPERS AND PROPOSALS

- Machine learning techniques for multimedia content analysis
- Machine learning techniques for video delivery and service
- Multimedia Big data and social media
- Multimedia security and privacy
- Multimedia Edge Computing and Fog Communication

- **Service Management**
  - Security and privacy in network and service management
  - Scalability and reliability issues
  - Charging, pricing, business models
  - Context awareness and personalization
  - Next generation services and emerging threats
  - Cross-layer optimization for multimedia service support

**IMPORTANT DATES:**

- Paper Submission: 15 April 2019,
- Acceptance Notification: 15 July 2019,
- Camera-Ready: 16 Aug 2019,

**IMPORTANT DATES:**

Please use the following link for submissions [https://edas.info/N25074](https://edas.info/N25074)