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IEEE LATIN-AMERICAN CONFERENCE ON COMMUNICATIONS November 17-19, 2021

Call for Papers

COVID-19 Update / Hybrid Conference Format: Authors and participants can attend the conference in person or remotely.

The LATINCOM 2021 Organizing Committee is inviting submissions of original, unpublished, high-quality research papers focused on (but not limited to) the following topics of interest:

Mobile and Wireless Networking

- Cellular systems, 4G/5G/B5G/6G
- Cognitive radio networks
- Device-to-device/machine-to-machine communications
- Green wireless networks
- Large-scale LEO satellite networking
- Opportunistic wireless networks
 Pervasive and wearable computing and networking
- Pervasive and wearable computing and networking
 Reconfigurable wireless networks
- Software-defined wireless networks
- Underwater wireless networks
- Vehicular networks
- UAV
- Wireless network virtualization
- Wireless multimedia networks
- WLAN, WPAN, and other home/personal networking technologies
 Wireless networking techniques based on AI
- Communication Services, Software and Multimedia Applications
- Cooperative networking for streaming media content
- E-health, E-governance, E-agriculture, etc.
- High quality service provisioning for multimedia applications
- Location-based services
- ML techniques for video delivery and service
- ML techniques for multimedia content analysis
- Multimedia cloud, streaming, multicast and broadcast services
- Multimedia fog/edge computing and communication
- QoE and QoS
- Quality-oriented routing algorithms
- Real time communication services
- Service orchestration and management
- Service security and privacy
- Triple and quadruple play services
- Communication QoS, Reliability and Performance Modeling
- Networks and communication systems modelling
 Networks and communications performance evaluation
- Reliability of systems and networks
- Traffic measurement, modelling, visualization, and engineering
- Security and trust in network design
- Integration aspects in IoT and Big Data systems
 Design of cloud, adds and other distributed computer
- Design of cloud, edge and other distributed computing networks
 QoS and network efficiency
- Optical Networks
- AI and ML for optical systems and networks
- Big data driven optical networking
- Data analytics for optical networks
- Elastic, flexible rate and flexi-grid optical networks
- Free-space optical networks
- Optical network control and management
- Optical network survivability and availability

- Communications Theory & Signal Processing – Communication theory of ad-hoc and sensor networks
- Communication theory of ad-noc and sensor networks
 Communication theory of distributed and edge computing
- Communication theory of distributed and edge computing
 Communication theory of networks and cross-layer design
- Multi-antenna, multi-user and multi-node systems
- Radio communications
- Satellite & space communications
- Signal processing techniques in 5G/B5G/6G
- Signal processing for QoS and QoE based applications
- Signal processing for smart grid and green communications
- Signal processing for sensor networks and IoT
- Signal processing for software defined and cognitive radio
- Signal processing for power line communications
- Signal processing for millimeter and tera-Hz communication
- Theoretical aspects of blockchain and ML in networks
- Next-generation Networking and Internet
- 5G/B5G/6G architecture
- Blockchain in next generation communications and networks
- Content-centric networking
- Centralized-RAN and Cloud-RAN architectures
- Future Internet and next-generation networking architectures
- High speed architectures for next generation routers/switches
- Management of service-oriented control plane in 5G/B5G
 Network functions virtualization

- Parallel architectures for next generation routers/switches

- AI and ML for virtualized and software-defined networks

- AI, neural networks, and deep learning for network management

- Cloud and network data analytics, modelling and visualization

- Cooperative learning for software-defined and virtualized

Network functions virtualization
 Next-generation access networks

- Software-defined networking AI, Big Data and ML for Networking

Big data for smart grids

networks

- Next-generation anomaly-intrusion-attack detection/prevention
- Next-generation flow management

– AI and ML for 5G/B5G/6G and network slicing

- Big data for smart cities and smart homes

- Big data for cloud computing and networking

- Big data for communications and networking

- Big data with IoT and cyber-physical systems

- Data analytics for QoS and traffic classification

- Data analytics for faults and root-cause analysis

- Data-driven management of virtualized infrastructure

- ML based distributed training and learning over-the-air

- Data-driven management of SDN and data centers

- Data-driven management of IoT and cyber-physical systems

Next-generation IP multimedia subsystem
 Next-generation network management and control

Nelson Fonseca , Univ. of Campinas, Brazil, Past Chair

Carlos Lozano Garzon , Univ. de los Andes, Colombia

Jose-David Cely , Univ. Distrital F. J. de Caldas, Colombia

Lisandro Zambenedetti Granville, UFRGS, Brazil

Carlos A. Gutierrez, Univ. Autónoma de San Luis Potosí, Mexico

Marco To De Leon , Univ. Galileo, Guatemala

Nury Gabriela Ramirez Cely , Continental Automotive, Mexico

Pedro Aguilera, Continental Automotive, Mexico

Fabrizio Granelli , Univ. of Trento, Italy, past MaL

- Optical vehicular networks
- Optical and wireless convergence
- Routing and spectrum assignment for optical networks
- Software defined optical networks
- Ultraviolet communications and networks
- Underwater optical communications
- Virtualization and slicing in optical networks
- Visible light communications

Conference Proceedings and Journal Special Issue

Predictive analytics and real-time analytics

Selected Areas in Communications

- Operational analytics and intelligence

- Blockchain in communications and networks
- Cloud, fog and edge computing
- Internet-of-Things
- Smart cities and urban computing
- Smart grid communications
- Social networks, crowdsourcing, and crowdsensing
- Tactile Internet

Accepted and presented papers will be published in the IEEE LATINCOM 2021 Conference Proceedings and submitted to IEEE Xplore[®] as well as other Abstracting and Indexing (A&I) databases. Authors of selected papers from LATINCOM 2021 will be invited to submit an extended version for possible publication in special issues of the following journals:

- International Journal of Network Management
- Journal of Communication and Information Systems

IMPORTANT DATES:

August 16, 2021 August 16, 2021 September 14, 2021 September 27, 2021 November 17-19, 2021 Paper submission deadline Submission of tutorial proposal Notification of acceptance Camera-ready papers

Conferences dates Santo Domingo, DR

