



IFIP/IEEE International Symposium on Integrated Network Management

8-12 April 2019 // Washington DC // USA

<http://im2019.ieee-im.org/>

Call for Papers

The 16th IFIP/IEEE Symposium on Integrated Network and Service Management (IM 2019) will be held 8-12 April 2019 in Washington DC, USA. Held in odd-numbered years since 1989, IM 2019 follows the 31 years tradition of NOMS and IM as the primary IEEE Communications Society's forum for technical exchange on management of information and communication technology focusing on research, development, integration, standards, service provisioning, and user communities. IM 2019 will focus on the theme "Intelligent Management for the Next Wave of Cyber and Social Networks", reflecting the increasing convergence of both technical network infrastructure and infrastructure for social interactions as well as the emergence of new waves of communications technology involving areas as varied as cyber-physical systems, ultra-low latency services, and converged management and control planes. IM 2019 will offer five types of sessions: technical, experience, poster, panel and dissertation. High quality will be assured through a well-qualified Technical Program Committee and stringent peer review of paper submissions. A special call for demonstrations is organized to allow industry partners and researchers to demonstrate early products and prototypes.

Topics of Interest

Authors are invited to submit papers that fall into or are related to the topic areas that are listed below. In addition, we invite submissions of proposals for demonstrations, exhibits, technical panels, tutorials and workshops, as well as experience session papers and dissertation papers.

Management and Control of Networks

- Enterprise and Campus Networks
- Data Center Networks
- Industrial Networks and TSN
- Cyber Physical Systems
- Software-Defined Networks
- IP Networks
- 5G
- Wireless Networks
- Optical Networks
- Overlay Networks
- Home Networks
- Access Networks
- SCADA Networks and DCS
- Sensor Networks
- Internet of Things
- Information-Centric Networks

Management and Control of Communication Services

- Information Technology Services
- Virtual Networking Services
- XaaS and Cloud Services
- Multimedia Services
- Content Delivery Services
- Social Networking Services
- Security Services
- Privacy Services
- IoT Services
- VR/AR Services

- Network Resilience and High-Precision Networks

Network Programming and Automation

- Software-Defined Networking
- DevOps
- Data-Driven Automation, Intelligence-Assisted Networking
- Network Automation
- Network Telemetry Collection
- Help Desk Automation
- Novel Network Programming Approaches
- Web Service Technologies for Service Creation

Management Algorithms and Architectures

- Centralized Management
- Distributed Management
- Autonomic networks and self-management
- Middleware
- Management protocols
- Fog and Mobile Edge Computing
- Lambda Functions and Elastic Management
- Machine Learning Applications for Networking

- Federated Learning and Artificial Intelligence
- Data Analytics for Management
- Policy-Based Management, Intent-Driven Management
- Probability, stochastic processes, queuing theory
- Data, information, semantic modeling
- Model-Driven Management
- Control Theory
- Network Optimization
- Design and Simulation

Management Functions and Practical Approaches

- Case Studies and Practical Experiences
- Integration Issues
- Business-Driven Management
- Service Assurance
- Fault and Performance Management
- Measurement and Validation
- SLA Management, QoS and QoE
- Compliance
- Accounting
- Billing
- Service Fulfillment
- Energy Management
- Deployment of Services
- Operations Support Systems

Contact TPC Co-chairs for more information: im2019tpc@gmail.com

Important Dates

Paper Submission Deadline: **August 19, 2018**

Notification of Acceptance: **November 15, 2018**

Please note that dates are almost a month earlier than in the past due to early April conference date

General Co-chairs

Joe Betser, The Aerospace Corporation, USA
Carol Fung, Virginia Commonwealth Univ., USA

TPC Co-chairs

Shingo Ata, Osaka City Univ., Japan
Alexander Clemm, Huawei, USA
Jérôme François, INRIA Nancy Grand Est, France