The 19th IEEE/IFIP Network Operations and Management Symposium (NOMS 2023) will be held 8-12 May 2023 in Miami, FL, USA. First organized in 1988, NOMS 2023 follows the 35 years tradition of NOMS and IM as the primary IEEE Communications Society’s forum for technical exchange on network and service operations and management, focusing on research, development, integration, standards, service provisioning, and user communities. The theme of NOMS 2023 is “Integrated Management Towards Resilient Networks and Services.” NOMS 2023 will offer various types of sessions, including technical, keynote, experience, poster, panel, and dissertation. High quality is assured through a well-qualified Technical Program Committee (TPC) and stringent peer review of paper submissions. Papers can be submitted as full and short technical session papers, experience session papers, and dissertation papers. In addition, we invite proposals for demonstrations, exhibits, panels, tutorials, and workshops.

**Topics of Interest**

Authors are invited to submit papers that fall into or are related to the following topics of interest:

**Network Management**
- IP Networks
- Wireless and Cellular Networks
- Optical Networks
- Virtual Networks
- Home Networks
- Access Networks
- Fog and Edge Networks
- Wide Area Networks
- Enterprise and Campus Networks
- Data Center Networks
- Industrial Networks
- Vehicular Networks
- Internet of Things and Sensor Networks
- Information-Centric Networks

**Business Management**
- Economic Aspects
- Multi-Stakeholder Aspects
- Service Level Agreements
- Lifecycle Aspects
- Process and Workflow Aspects
- Legal Perspective
- Regulatory Perspective
- Privacy Aspects
- Organizational Aspects

**Functional Areas**
- Fault Management
- Configuration Management
- Accounting Management
- Performance Management
- Security Management

**Technologies**
- Communication Protocols
- Middleware
- Overlay Networks
- Peer-to-Peer Networks
- Cloud Computing and Cloud Storage
- Data, Information, and Semantic Models
- Information Visualization
- Software-Defined Networking
- Network Function Virtualization
- Orchestration
- Operations and Business Support Systems
- Control and Data Plane Programmability
- Distributed Ledger Technology

**Management Paradigms**
- Centralized Management
- Hierarchical Management
- Distributed Management
- Federated Management
- Autonomic and Cognitive Management
- Policy- and Intent-Based Management
- Model-Driven Management
- Pro-active Management
- Energy-aware Management
- QoE-Centric Management

**Methods**
- Mathematical Logic and Automated Reasoning
- Optimization Theories
- Control Theory
- Probability Theory, Stochastic Processes, and Queuing Theory
- Artificial Intelligence and Machine Learning
- Evolutionary Algorithms
- Economic Theory and Game Theory
- Monitoring and Measurements
- Data Mining and (Big) Data Analysis
- Computer Simulation Experiments
- Testbed Experimentation and Field Trials
- Software Engineering Methodologies

**Paper submission guidelines**
Authors are invited to submit original contributions written in English that have not been published or submitted for publication elsewhere. Technical papers must be formatted using the IEEE 2-column format and not exceed 8 pages (excluding references) for full paper submissions or not exceed 4 pages (excluding references) for short paper submissions.

All papers should be submitted through JEMS at https://jems.sbc.org.br/noms2023.

All submitted papers will be peer-reviewed. Accepted and presented papers will be published in the conference proceedings and submitted to IEEE Xplore.

**Important Dates:**
- **Paper Submission Deadline:** September 12, September 30, 2022 (Firm)
- **Notification of Acceptance:** December 16, 2022
- **Final Camera Ready:** January 30, 2023

**General Co-chairs:**
- Kemal Akkaya, FIU, USA
- Olivier Festor, Université de Lorraine, France

**TPC Co-chairs:**
- Mohammad Ashiqur Rahman, FIU, USA
- Carol Fung, Concordia University, Canada
- Lisandro Zambenedetti Granville, UFRGS, Brazil