



CALL FOR PAPERS

The 2025 IEEE/IFIP Network Operations and Management Symposium (NOMS 2025) will be held 12-16 May, 2025, in Honolulu, Hawaii, USA. First organized in 1988, NOMS 2025 follows the 37-year tradition of NOMS and IM as the IEEE Communications Society's primary forum for technical exchange on network and service management, focusing on research, development, integration, standards, service provisioning, and user communities. NOMS 2025 seeks contributions presenting recent developments and technical solutions for dealing with the management of various networks and services. NOMS 2025 program will be under the theme of *Managing the Wave to Global Connectivity* and will feature a variety of sessions, including keynotes, tutorials as well as technical, experience, demo, poster, panel, and dissertation sessions.

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

Management of Networks

- . IP Networks
- . Wireless and Cellular Networks
- . 5G network and Beyond (6G)
- . Quantum Networks
- . Optical Networks
- . Virtual Networks and SDN
- . Home Networks
- . Access Networks
- . Fog, Edge and Cloud Networks
- . Enterprise and Campus Networks
- . Data Center Networks
- . Industrial Networks
- . Vehicular Networks
- . IoT, Sensor and M2M Networks
- . Information-Centric Networks

Management of Services

- . Multimedia Services
- . Over-The-Top Services
- . Content Delivery Services
- . Cloud Computing Services
- . Internet Connectivity and Internet Access Services
- . Internet of Things Services
- . Security Services
- . Context-Aware Services
- . Information Technology Services
- . Service Assurance

Management of Businesses

- . 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

Management Paradigms

- . Centralized Management
- . Hierarchical Management
- . Distributed Management
- . Integrated Management
- . Federated Management
- . Autonomic and Cognitive Management
- . Policy- and Intent-Based Management
- . Model-Driven Management
- . Proactive Management
- . Energy-aware Management
- . QoE-Centric Management

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
- . Digital Twins

Methods

- . Mathematical Logic and Automated Reasoning
- . Optimization Theories
- . Control Theory
- . Probability Theory, Stochastic Processes, Queuing Theory
- . Artificial Intelligence and Machine Learning
- . Evolutionary Algorithms
- . Economic Theory, Game Theory and Business Models
- . Risk Management Methods
- . 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 JEMS3 at <https://jems3.sbc.org.br/noms2025>.

All submitted papers will be peer-reviewed. Accepted and presented papers will be published in the conference proceedings and submitted to IEEE Xplore. Authors of the best accepted papers will be invited to submit extended versions of their papers to IEEE Transactions on Network and Service Management (TNSM).

IMPORTANT DATES

Paper Submission: September 13, 2024

Notification of Acceptance: December 20, 2024

Camera Ready Paper: January 31, 2025

<https://noms2025.ieee-noms.org/>

General Co-Chairs:

Doug Zuckerman, Telcordia (Retired), USA
Mehmet Ulema, Manhattan College, USA

TPC Co-Chairs:

Noura Limam, University of Waterloo, Canada
Young-Tak Kim, Yeungnam University, Korea

