21st International Conference on Network and Service Management

AI and Sustainability in the Future of Network and Service Management

27 - 31 October, 2025 - Bologna, Italy

CALL FOR PAPERS

The 21st International Conference on Network and Service Management (CNSM) is inviting authors to submit original contributions to network and service management research. CNSM is a selective single-track conference that covers all aspects of network and service management, pervasive systems, enterprises, and cloud computing environments. In particular, CNSM 2025 will focus on AI and Sustainability in the Future of Network and Service Management.

Papers accepted and presented at CNSM 2025 will be published as open access on the conference website and will be submitted for possible publication in IEEE Xplore. Authors of selected papers accepted for publication in the CNSM 2025 proceedings will be invited to submit an extended version of their papers to the IEEE Transactions on Network and Service Management journal.

Topics of Interest (but not limited to)

Technologies
- Communication Protocols
- Middleware
- Overlay Networks
- Peer-to-Peer Networks
- Technologies for Computing Continuum
- 5G/6G Networks
- Federated and Distributed Learning
- Generative AI and Large Language Models
- Green and Sustainable Networking
- Information Visualization
- Software-Defined Networking
- Monitoring and Measurements
- Multi-Access Edge Computing
- Network Function Virtualization
- Orchestration
- Operations and Business Support Systems
- Control and Data Plane Programmability
- Distributed Ledger Technology
- Digital Twins for Networks and Services
- Reinforcement Learning
- Secure and Dependable Networking

Service Management
- Multimedia Services
- Content Delivery Services
- Cloud/Edge Computing Services
- Data Services
- Internet Connectivity and Internet Access Services
- Internet of Things Services
- Security Services
- Context-Aware Services
- Information Technology Services
- Service Assurance

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

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

Important Dates

Paper Submission:
16 June 2025
Rebuttal Period:
20-22 August 2025
Acceptance Notification:
27 August 2025
Camera Ready due:
14 September 2025

Technical Program Co-Chairs

Daphné Tuncer,
Institut Polytechnique de Paris, France
Alberto Egon Schaeffer-Filho,
Federal University of Rio Grande do Sul, Brazil
Davide Borsatti,
University of Bologna, Italy

General Co-Chairs

Walter Cerroni,
University of Bologna, Italy
Mauro Tortonesi,
University of Ferrara, Italy

Paper Submission

Authors are invited to submit original contributions that have not been published or submitted for publication elsewhere. Papers should be prepared using the IEEE 2-column conference style and are limited to 9 pages including references (full papers) or 5 pages including references (short papers). Papers must be submitted electronically in PDF format through the EDAS system (the submission link will be available soon).

Papers exceeding page limits, multiple submissions, and self-plagiarized papers will be rejected without further review. All other papers will get a thorough single-blind review process, followed by a rebuttal phase.

For further information, please check http://www.cnsm-conf.org/2025/.