

CONFERENCE IN PERSON ACTIVE

ANMS 2026 : 5th International Workshop on Autonomous Network Management Systems

LOCATION	SUBJECT / TOPIC	EVENT DATES	LAST UPDATED
Spain	General	October 26-30, 2026	30th June, 2026

DESCRIPTION

5th International Workshop on Autonomous Network Management Systems (ANMS 2026).

Collocated with the 22nd International Conference on Network and Service Management 2026, 26 – 30 October 2026, Alcalá de Henares (Madrid), Spain (<https://www.cnsm-conf.org/2026/index.html>)

Workshop chairs: Paul Harvey (University of Glasgow), Paola Soto-Arenas, Miguel Camelo Botero (University of Antwerp & imec), Francesc Wilhelmi (Universitat Pompeu Fabra)

----- CALL FOR CONTRIBUTIONS -----

Beyond 5G and 6G wireless systems are expected to handle significantly increased data rates, provide ultra-low latency and enhanced connectivity to massive numbers of devices, and bring improvements in network energy efficiency. This new generation of networking systems aims to be fully autonomous networks (AN) with management capabilities, such as self-configuration, self-healing, self-optimizing, and self-evolving aspects, that today’s networks do not support as their management is largely manual with some automated assistance.

This workshop focuses on novel research in algorithms, architectures, approaches, and applications in the autonomous management of 5G and 6G systems. We encourage original paper submissions from academia and industry presenting work in progress or novel research on the most recent advances, frameworks, models, and approaches for management of autonomous networks using enabling techniques, such as AI/ML, network digital twins, network programmability, network softwarization, network function virtualization, software-defined networking, and blockchain. We are also interested in articles revising the state-of-the-art of this topic, showing recent major advances and discoveries, significant gaps in the research, current standardization status, and new future issues, especially related to sustainability.

KEY DEADLINES

Submission	14th Aug, 2026
Notification	11th Sep, 2026
Camera Ready	18th Sep, 2026
Conference	26th Oct, 2026

OFFICIAL LINKS

[Visit Submission Page](#)

CALL FOR PAPER URL
<https://callforpaper.org/cfp/call-for-papers-anms-2026>

----- Links to the Workshop pages -----

Workshop – <https://anms-conf.github.io> | CNSM - <https://www.cnsm-conf.org/2026/index.html>

----- Topics -----

Topics of interest include:

- Self-* techniques of network management in AN
- Architectures and frameworks to integrate AI natively in AN, including distributed solutions
- Decentralised and distributed AI for management and operation in AN
- Network resource and service automation and orchestration in AN
- Network state prediction and forecasting for AN
- Network monitoring systems (traffic recognition, anomaly detection, etc.) for AN
- Intelligent network service provisioning and assurance in AN
- Methods and algorithms for resource allocation and usage in AN
- AN management in resource-constrained environments
- Adaptation and customization of AI for constrained devices (e.g. edge) for control in AN
- Efficient resource allocation and scheduling (e.g., spectrum, storage, compute) in AN
- Tools, simulators, or network digital twins for planning, validation, and what-if analysis in AN
- Generation and use of knowledge-graphs for AN use cases
- Taxonomies of explainability of AI decisions for AN use cases
- The role and usefulness of LLM's in AN and intent
- Novel contributions on low carbon and sustainability in AN
- Blockchain and distributed ledger technology for AN management and trust
- Security provision and its integration with AN
- End-to-end management of AN
- Autonomous management of access and interaction for the radio spectrum
- Autonomous management via AI-native approaches and use cases across the network
- Interplay between Data Quality and performance of AI-based solutions in ANs
- Evaluation of Data Quality in ANs Benchmarks
- Agentic AI for autonomous network and service management

----- Submission -----

Submission link: <https://anms-conf.github.io/#submit>

Submissions should use the IEEE 2-column conference style. Paper limit: 6 pages (regular), 4 pages (position papers), including references. To encourage reproducibility, we encourage the authors, whenever it is possible, to include in their paper a link to an anonymised GitHub repository with all source code, scripts and data needed for the reproduction of their results.

Note: authors should adhere to ethic and professional standards of IEEE. Please refer to IEEE Code of Ethics and IEEE Policy of AI-Generated Text.

----- Important Dates -----

<https://anms-conf.github.io/#dates>

- Paper Submission Deadline: August 14, 2026
- Notification of Acceptance: September 11, 2026
- Camera-ready submission: September 18, 2026
- Workshop: October 26th, 2026