GenXNet 2025: Call for Papers

The 1st IEEE International Workshop on Generative and eXplainable AI for Networking, 20-22 October 2025, Marrakech, Morocco

Website:https://traffic-arclab.github.io/genxnet2025/

The 1st IEEE International Workshop on Generative and eXplainable AI for Networking (GenXNet 2025) will be held in conjunction with the 21th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob) in Marrakech, Morocco on October 20-22, 2025.

GenXNet aims at the investigation of research results and the systematic discussion of challenges at the intersection of Generative AI (GenAI) and eXplainable AI (XAI) with Networking systems.

GenXNet 2025 will include original full-paper presentations and a keynote. The workshop attendees will be stimulated to participate in interesting discussions.

Submission and Important Dates

Submission site: **TBD**

Paper Submission: **July 1st, 2025**

Acceptance Notification: **August 15th, 2025**

Camera-ready Papers: **September 1st, 2025**

Topics of Interest

Authors are invited to submit papers that fall into or are related to one or multiple topic areas listed below:

- GenAI-driven network traffic generation and augmentation
- GenAI-powered network automation, configuration, and management
- Applications of GenAI in fixed, mobile and 6G network traffic analysis and engineering
- GenAI for 6G user behavior modeling and simulation

- GenAI for enhanced network security, anomaly detection and intrusion detection systems in heterogeneous wired/wireless and 6G networks
- GenAI-based log analysis for cybersecurity and network performance optimization
- Generative approaches for traffic prediction and load balancing
- GenAI for simulation of advanced persistent threats and threat intelligence gathering
- Security, privacy, and trustfulness for GenAI in fixed, mobile and 6G networks
- Robustness and reliability of GenAI for network management
- XAI for real-time threat analysis in wired/wireless environments
- XAI for energy-efficient and sustainable 6G networks
- XAI for security and threat detection
- XAI in fault detection and management for 6G Infrastructure
- XAI for transparency in network operations and maintenance
- XAI techniques for network traffic analysis and management
- Integration of interpretability into AI-driven traffic analysis and human-in-the-loop AI
- Bridging the gap between network data explanation and actionable interpretability
- Fairness, accountability, and transparency in AI for next-generation networking
- Techniques for improving the trust and practical use of data-driven network analysis methods in 6G scenarios
- Real-world applications and case studies of GenAI and/or XAI in 6G networks

Submission Guidelines

Authors are required to submit fully formatted, original papers (in PDF format). All workshop papers are limited to **no more than 6 pages**, including references, in the IEEE format aligned with the IEEE WiMob 2025 main conference guidelines (http://wimob.org/wimob2025/cfp). Each submission must be written in English, accompanied by a **75 to 200 words abstract** that clearly outlines the scope and contributions of the paper.

The submission site is: TBD.

Accepted and presented papers will be published in the **WiMob proceedings** and submitted to **IEEE Xplore** as well as other Abstracting and Indexing (A&I) databases. IEEE reserves the right to exclude a paper from distribution after the conference, including IEEE Xplore® Digital Library if the paper is not presented by the author at the conference.

Keynotes

- TBD

General Chairs

- **Antonio Pescapè**, University of Napoli Federico II, Italy (pescape@unina.it)
- **Giampaolo Bovenzi**, University of Napoli Federico II, Italy (giampaolo.bovenzi@unina.it)
- **Alfredo Nascita**, University of Napoli Federico II, Italy (alfredo.nascita@unina.it)

Technical Program Committee

- TBD

Note: if interested in being part of the TPC, please contact workshop organizers.