Call for Papers

Resilient Green AI Network: Programmable UAV-Edge Synergy (RGNs) Workshop

The 22nd International Conference on Wireless Communications and Mobile Computing

Website: http://iwcmc.net/2026/

Submission Link: **https://edas.info/N34281**

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Scope

Resilient Green AI Networks integrate programmable networks, UAV swarms, and edge computing to form a cornerstone of next-gen intelligent infrastructure, minimizing energy consumption and environmental impact through dynamic resource orchestration, adaptive service delivery, and eco-conscious design. These networks combine SDN/NFV-enabled programmable dynamics for on-demand resource allocation, UAV swarms with edge-AI processors for real-time environment sensing and collaborative tasks in disaster/remote scenarios, and edge-AI nodes co-designed with UAVs for local sensor data processing to reduce cloud dependency. Ecologically responsible design incorporates renewable energy-aware scheduling, recyclable hardware, and energy-efficient AI models to balance performance with ecological impact. Recent advances in SDN/NFV, edge computing, and UAV swarm intelligence enable seamless integration of these technologies, maintaining low environmental footprints while providing high convenience through integrated systems like edge-AI processors, software-defined radios, and IoT sensors.

Topics

Accepted papers will be published in the IEEE IWCMC 2026 proceedings and will be submitted to the IEEE digital library (IEEE Xplore). Authors are welcome to submit original papers (not published before and/or simultaneously to another venue) with topics that include but are not limited to:

- NFV-Enabled Resilience
- AI-Driven Network Optimization
- MEC-UAV Reliable Connectivity
- Green Sustainability
- Resilient and energy-efficient UAV-edge network architectures
- Lightweight AI-driven UAV-edge coordination frameworks

Submitted papers are encouraged to address novel technical challenges or industrial and standard aspects of the key technologies for sustainable and secure cognitive buildings/cities.

Important Dates

Same deadlines as the main conference dates.

Note: Within this workshop, there will be one Best Paper Award.