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Track 15. Aerial Communications, UAV Communications, Vehicular Nerworks

With the rapid advancement of technology, aerial communications, UAV communications and vehicular networks have emerged as pivotal domains in the field of telecommunications. Aerial communications offer efficient solutions for connectivity in remote regions and during emergency response operations. UAV communications demonstrate significant potential in applications such as agricultural monitoring, logistics and aerial photography. Vehicular networks facilitate intelligent transportation and autonomous driving through robust inter-vehicle communications. These technologies introduce both new challenges and opportunities including high-definition video transmission, real-time data sharing and low-latency communications. With rapid technological advancement, Aerial communications, UAV communications and vehicular Networks have become key areas in telecommunications. Aerial communications to provide efficient solutions for remote areas and emergency rescues. UAV communications show great potential in agricultural monitoring, logistics and aerial photography. Vehicular Networks enable intelligent transportation and autonomous driving through inter-vehicle communication. These technologies present new challenges and opportunities, such as high-definition video transmission, real-time data sharing and low-latency communication.

Topics

- Design and optimization of aerial communication solutions for inter-UAV
- ▶ Ground-to-UAV communications
- > Integration of aerial networks with terrestrial and satellite networks
- Massive MIMO, mmwave, and terahertz communications in aerial networks
- Al and machine learning applications in UAV communications
- > UAV network architecture and protocols
- > UAVs for edge computing and data offloading
- Vehicle-to-Vehicle (V2V) and Vehicle-to-Infrastructure (V2I) communication protocols
- ▶ Intelligent transport systems (ITS) and smart cities



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Submission Instruction

Submission Link: Template Paper (Word): https://www.ieee-icct.org/IEEEtemplate-word.doc Template Paper (LaTex): https://www.ieee-icct.org/ieee-conference-latex-template.zip **Important Dates** Paper Submission Deadline: May 25, 2025 June 25, 2025 Notification of Acceptance:

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