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Call for Papers

Track 9 – Vehicular Communications and Applications in Water, Land, and Sky

Track Chairs:

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Scope and Motivation:

Vehicular communication systems are making new applications possible in water, land, and sky. Due to different channel characteristics by vehicles' mobility and wireless propagation mediums, the vehicular communication systems have fundamental differences with conventional communication systems, which include rapidly-changing network topology, dynamics of interference, and constrains on vehicles' movements. These new challenges should be taken into account in the system design. Additionally, depending on the vehicle types (drones, cars, trains, airplanes, ships, etc) and their applications, the requirements on communications performance are very different from conventional wireless systems. For examples, time-critical safety and infotainment services must have different target performances in data rates and delays.

Main Topics of Interest:

The vehicular communications and applications in water, land, and sky track seeks original contributions in the following areas, as well as others that are not explicitly listed but are closely related:

- Channel modelings for vehicle-to-vehicle (V2V), ground-to-vehicle (G2V) communication
- Medium access control techniques for V2V communications using IEEE 802.11p
- Vehicle-to-everything (V2X) communications using mmWave bands
- Waveform designs for joint communication and radar systems for vehicles
- Information-theoretical analysis for V2X networks
- New applications for V2Xcommunications
- Performance analysis for V2V networks via stochastic geometry
- Radar techniques to assist V2V communications
- Policy and standardization issues for V2X communications
- Prototype demonstrations for V2X communications

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