



**IEEE Consumer Communications & Networking Conference (CCNC)
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Call for Papers for *Vehicular Communications and Applications in Water, Land, and Sky Track*

Scope and Motivation:

The futuristic scenario which integrates water, land and sky vehicles into heterogeneous cyber-physical systems opens up a plethora of market possibilities to practitioners and stakeholders. In fact, water, land and sky vehicles are increasingly becoming an indispensable tool for fully automated or human-assisted missions, services and applications. Groups of homogenous or heterogeneous autonomous or human-controlled vehicles are able to perform actions and provide services and applications for several application fields, such as: environment, disaster management and recovery, civil, entertainment. Furthermore, intelligent vehicles provide new smart environments (factories, offices, homes, cities, etc.) with the additional features given by their actuation capabilities, which aim at improving, at the same time, the performance of a specific mission as well as the performance of the underlying communication network.

The three different contexts: land, water and sky, as well as the integrated context consisting of the three segments working together have already gained momentum that brought to several standardization activities. Still they present several research issues, which need to be faced in order to design and develop reliable, green, affordable and efficient communication architectures. Furthermore, the intrinsic differences in the communication environments pose additional challenges which push researchers to specific application oriented solutions. This track focuses on the open research challenges and their practical solutions, as well as on the standardization activities and the applications and products already existing.

Main Topics of Interest:

The Vehicular Communications and Applications in Water, Land, and Sky Track seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Vehicular ad hoc networks (VANET): research issues and solutions
- Unmanned Air Vehicles networks (UAVNET): research issues and solutions
- Underwater networks (UWNET): research issues and solutions
- Communication environment in VANET, UAVNET, UWNET
- Modeling and simulation of VANET, UAVNET, UWNET
- Mobility management in VANET, UAVNET, UWNET
- Integration of heterogeneous networks
- Standardization activities
- M2M and D2D communications in VANET, UAVNET, UWNET
- Experimental experiences and testbeds in VANET, UAVNET, UWNET
- Applications and services of VANET, UAVNET, UWNET
- Routing protocols and MAC protocols for VANET, UAVNET, UWNET
- Mobility models for VANET, UAVNET, UWNET
- Controlled mobility schemes for VANET, UAVNET, UWNET
- Multimedia and real-time communications in VANET, UAVNET, UWNET
- Middleware for VANET, UAVNET, UWNET
- Infrastructured and infrastructureless networking in VANET, UAVNET, UWNET
- Network architectures and middlewares for VANET, UAVNET, UWNET
- Self-organization and autonomous operations of VANET, UAVNET, UWNET
- VANET, UAVNET and UWNET for Smart Environments

Track Chairs:

Enrico Natalizio, Université de Technologie de Compiègne, France

Alexey Vinel, Halmstad University, Sweden