Special Issue

Cooperative Vehicular Networking 2023

Message from the Guest Editors

Human drivers have been driving in a mostly cooperative and sometimes competitive manner on roads with varying geometries, traffic regulations, weather, and visibility conditions. The objective of this Special Issue is to examine how this behavior can be transferred to fully autonomous driving or more realistically to driving with mixed traffic. The most likely case for autonomous driving is that human drivers will cooperate and sometimes compete with autonomous vehicles to gain advantages. Several major issues need to be addressed in this situation: the sensory capabilities of autonomous vehicles (where the ADAS use online learning methods to gain immediate situational awareness), the communication capabilities to convey this knowledge using standardized protocols, and the capability to use them with pre-programed real time controllers in automated vehicles in addition to ADAS systems that may evolve to support human drivers...

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