

Special Issue

Cooperative Perception, Communication and Computing for Autonomous Vehicles

Message from the Guest Editors

With the continuous evolution of wireless communication and artificial intelligence (AI), the swarm-intelligence-enabled cooperative driving (SICD) paradigm is becoming increasingly integral to autonomous vehicles. To improve the safety and efficiency of autonomous driving, substantial amounts of research have been devoted to vehicular resource allocation and multi-agent collaboration. However, the SICD performance is affected by the synergy between the cooperation of intelligence and the resource allocation of vehicular networks. Furthermore, the perception, communication, and computing resources of vehicular networks are coupled. Thus, swarm intelligence and multi-dimensional resources should reinforce each other to guarantee a good SICD performance. On one hand, multi-agent collaboration needs to consider underlying resource constraints. On the other hand, resource allocation needs to consider the influence of multi-agent interaction.

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The *World Electric Vehicle Journal* is the official journal of the World Electric Vehicle Association (WEVA) and its members the European Association for Electromobility (AVERE), the Electric Drive Transportation Association (EDTA), and the Electric Vehicle Association of Asia Pacific (EVAAP). Since its foundation in 2007, the journal has aimed to provide a publishing platform for the academic and industrial world to share the latest developments and knowledge about electric vehicles. If you are developing Electric, Plug-in Hybrid, Hybrid Electric, or Fuel Cell Vehicles, we cordially invite you to consider us as the place for you to publish your latest results and innovations.

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