

Special Issue

Advances in Vehicular Networks

Message from the Guest Editors

Vehicle-to-anything (V2X) communication is a key asset of the next automation revolution, representing the core of major transformations in society with social, economic, and environmental impacts. Connected vehicles are expected to transform the way we travel and how we live, through the creation of a safe, interoperable wireless communication network among road actors, infrastructure, and objects. Combined with sensor-based technologies, connected vehicles will enhance the performance of automated driving and increase further traffic safety. International consortiums have already agreed on the basic set of applications that need to be implemented to start operating a vehicular network infrastructure at a large scale. Current access technologies, such as IEEE 802.11p or 3GPP LTE-V2X can already succeed in providing challenging new applications, but cannot satisfy all requirements of future applications, since these technologies are designed with the human user in mind; hence, with latency in the order of hundred milliseconds, around 90% of reliability within given ranges, and limited data rates.

Guest Editors

Prof. Dr. Barbara Mavi Masini

1. Institute of Electronics Information Engineering and Telecommunications, National Research Council, Bologna, Italy
2. Department of Electrical, University of Bologna, 40136 Bologna, Italy

Dr. Cristiano M. Silva

Department of Technology, Federal University of São João Del-Rei (UFSJ), Brazil

Dr. Ali Balador

Mälardalen University, Västerås, Sweden

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jsan@mdpi.com

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Editor-in-Chief

Prof. Dr. Lei Shu

1. College of Smart Agriculture (Artificial Intelligence), Nanjing Agricultural University, Nanjing 210031, China

2. School of Engineering, College of Science, University of Lincoln, Lincoln LN6 7TS, UK

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