Special Issue

Computing in Future Transportation Systems

Message from the Guest Editors

With the accelerated penetration of the new generation of information technologies such as 5G/6G, artificial intelligence, big data, and the Internet of Things in the field of transportation, the constantly moving vehicles have gradually become data centers and computing equipment on the wheels, which poses new challenges to the computing infrastructures, architecture, methods and computing capability in the future transportation system. Therefore, this special issue is aimed at introducing new ideas and experimental results of intelligent, sustainable and green computing architecture from design, service and theory to its practical application in the field of future transportation. Potential topics related to computing in future transportation system include but are not limited to intelligent computing, data-intensive applications, large-scale computational science, artificial intelligence, machine learning and deep learning, new parallel and distributed computing, green computing, sustainable computing, and massive data processing from roadside infrastructure and vehicles. Computer architecture, digital twins and resource management technology are also topics of interest.

Guest Editors

Prof. Dr. Hao Wu

Key Laboratory of Railway Industry of Broadband Mobile Information Communications, Beijing Jiaotong University, Beijing 100044, China

Prof. Dr. Hongke Zhang

National Engineering Laboratory for Next Generation Internet Interconnection Devices, Beijing Jiaotong University, Beijing 100044, China

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

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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