Special Issue

Mobile Ad Hoc Networks (MANETs) in the Era of Cutting-Edge Technologies

Message from the Guest Editor

In the last two decades, the integration of smart sensing devices into mobile objects has led to a revolution in mobile ad hoc networks (MANETs). This has enabled the deployment of new services and applications that have made our lives smarter and safer. However, datasets collected by MANETs are characterized by their massive size, high speed generation and heterogeneous type, which require complicated processing techniques and substantial storage facilities. This underlines the importance of using cutting-edge technologies (mainly artificial intelligence (AI), data science, edge/fog, cloud, etc.) in MANETs. Using such technologies, the processing and analysis of mobile data can yield benefits to MANETs and optimize services and applications in places such as cities. Additionally, they ensure efficient architectures for storing and handling big data collected in MANETs. This Special Issue presents the latest findings that highlight how cutting-edge technologies such as AI, machine/deep learning, edge and fog computing, and cloud computing can be used to push the current state of the art with respect to MANETs.

Guest Editor

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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.

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