Special Issue

Technology of Mobile Ad Hoc Networks

Message from the Guest Editors

Ad hoc networks are pivotal in enabling decentralized, self-configuring communication systems for applications ranging from emergency response to smart cities. Ad hoc networking covers a variety of network paradigms including mobile ad hoc networks (MANETs), wireless sensor networks (WSNs), vehicular ad hoc networks (VANETs), airborne networks, underwater networks, personal area networks, collaborative robotics (CoBots), etc. With the rapid evolution of IoT, 5G/6G, AI/ML, and UAVs, ad hoc networks have been facing new opportunities and challenges. For example, MANETs may become edge networks and computing for 5G/6G; AI and machine learning could be utilized to predict node movement, optimize routing, or detect security threats; biology algorithms such as colony optimization could be introduced to UAVs; blockchain could be used to enhance the security and trust mechanism of VANETs; network coding could be leveraged to fight against wiretap attacks and TAAs (Traffic Analysis Attacks), and so on.

This Special Issue invites high-quality research addressing theoretical, practical, and innovative aspects of ad hoc networks.

Guest Editors

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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