Special Issue

Celebrating the 100th Anniversary of Yunnan University—Securing Mobile Edge Computing: Challenges and Solutions for Edge Architectures

Message from the Guest Editors

Mobile Edge Computing (MEC) has emerged as a promising solution to meet the growing demand for low-latency and high-bandwidth applications and services such as augmented reality, autonomous vehicles, and smart cities. However, MEC nodes are often limited by computing resources, storage capacity, and energy resources, which makes them vulnerable to a range of malicious attacks such as DDoS attacks, malware, and privacy breaches. This, in turn, poses significant challenges in building a secure and robust MEC system that is capable of functioning effectively on edge architecture. As a result, there is a pressing need for research and development efforts to address the technical challenges ahead and ensure that MEC networks are resilient against various forms of cyber threats.

- Resource allocation for MEC networks
- MEC security and privacy
- MEC-based federated learning
- MEC-enabled application security
- MEC-based privacy protection
- MEC-oriented adversarial attacks and defense
- Security and privacy issues in integrated sensing/communication networks

We look forward to receiving your contributions. www.mdpi.com/journal/electronics/special_issues/4WG82HG8SD

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Deadline for manuscript submissions

closed (15 July 2024)

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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.

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