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Network Security Management in Heterogeneous Networks

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Edited by
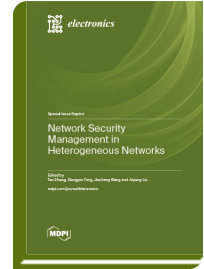Tao Zhang
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Heterogeneous networks, as a critical component of modern communication technology, have experienced rapid development in recent years. The emergence of technologies like 5G, the Internet of Things (IoT), and edge computing has significantly enhanced the diversity and complexity of heterogeneous networks, making them pivotal for diverse application demands. However, the openness and diverse characteristics of heterogeneous networks expose them to serious security challenges. Such networks are vulnerable to attacks like Distributed Denial-of-Service (DDoS) attacks, malware propagation, and jamming attacks, posing significant risks to system stability and data privacy. To address these pressing security challenges, researchers have developed a variety of defense strategies aimed at mitigating risks in heterogeneous networks. Compared to traditional approaches, these strategies exhibit several distinct advantages, such as the ability to efficiently handle large amounts of data while ensuring data security, flexibility in tackling various security challenges, and resilience against advanced and persistent cyberattacks. These approaches provide significant theoretical and practical support for improving the security of heterogeneous networks.

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