



Smart Antenna Optimization Techniques for Wireless Applications

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Message from the Guest Editors

In recent years, antenna design has received a lot of attention. The notion of 5G, a new generation of mobile wireless technology that offers multi-gigabit-per-second data rates with a higher capacity and lower latency than today's wireless systems, was recently announced by the wireless communications industry. Future phones and base stations will need multimode antenna technology that is both energy-efficient and can function in the millimeter wave band in conjunction with legacy 4G and sub-6 GHz 5G. Antennas should be small in size, but they must meet technical criteria, such as a greater power, wider bandwidth, higher gain, and insensitivity to human users' hand-held influence. The next 5G system will be a true mobile multimedia communication platform, including not just legacy heterogeneous mobile networks but also sophisticated radio interfaces and the ability to operate at millimeter wave frequencies to make use of the vast amount of available capacity.

This Special Issue aims to shed light on recent breakthroughs in antenna design for these new developing applications, as well as highlight more study possibilities in this fascinating field of communications technology.





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Message from the Editor-in-Chief

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