



Channel Modeling and Simulation in Wireless Communications

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Message from the Guest Editors

Electromagnetic waves propagate through environments where they are reflected, scattered, and diffracted by walls, buildings, and other objects. Theoretically, the detailed analysis of such a propagation may be performed by a solution of Maxwell's equations with corresponding boundary conditions that characterize the propagation environment. Nevertheless, these calculations are difficult, and the precise values of the required parameters are often non-available. Practically, different approximations for propagation modeling have been developed for a variety of different frequencies and communication scenarios.

The statistical simulation of communication scenarios is a common practice for an algorithm performance analysis and a further design of communication systems. Such simulations are typically tightly related to a channel model and reflect channel variability over time.

This Special Issue is addressed to all types of channel modeling and simulation for future wireless communications.





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