Special Issue

Channel Modeling and Simulation in Wireless Communications

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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