Special Issue

Channel Estimation and Adaptive Modulation

Message from the Guest Editors

Channel estimation (CS) and adaptive modulation (AM) are key physical layer techniques to enhance spectral efficiency over time/frequency/spatial variant channels while maintaining a target error rate. At present, these tasks have to be performed in communication channels with a large variety of characteristics, which range from channel response sparsity, as in the upcoming fifth-generation (5G) millimeter-wave communications; extremely rapid channel response variations, as in underwater acoustic (UWA) and vehicle-to-everything (V2X) communications; and cyclostationary noise, as in power line communications (PLC), just to mention a few examples. The diversity of system features and operation modes (e.g., massive MIMO and in-band full-duplex), receiver architectures (e.g., iterative architectures), network configurations (e.g., relay networks), and processing techniques (e.g., machine learning) have also widened the catalogue of CS and AM strategies and methods. This Special Issue is aimed at collecting high-quality contributions addressing CS and AM problems in all communication scenarios. Detailed information:
https://www.mdpi.com/journal/electronics/special_issues/CS_AM

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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 guestedited by leading experts in selected topics of interest.

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