Special Issue

Sparse Array Design, Processing and Application

Message from the Guest Editors

Antenna arrays have been used widely in the field of radar, sonar, wireless communications, and medical imaging. Compared with traditional compact antenna arrays, sparse arrays have larger array aperture, greater degrees of freedom (DOF), and smaller mutual coupling. Meanwhile, sparse arrays can achieve higher resolution and resolve more sources than that of uniform arrays with the same number of antennas. In recent years, sparse arrays have attracted significant attention. However, there are still some problems in sparse array design, processing, and application. Therefore, there are urgent requirements for the new sparse array structure and the corresponding signal processing methods in order to obtain high-precision, high-resolution, and large-capacity parameter estimation in different applications. This Special Issue invites contributions on the latest developments and advances in robust processing methods, schemes, or architectures for sparse array and its parameter estimation methods.

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