Sensor Network Signal Processing

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Deadline for manuscript submissions:
closed (31 January 2021)

Message from the Guest Editors

Dear Colleagues,

Sensing permits us to get a better comprehension of the world we live in. A sensor network consists of a number of small, low-cost, low-power devices called sensor nodes, which have some sensing, data processing, and communication capabilities. Remarkable progress in radio-frequency and micro-electro-mechanical systems integrated circuit design over the last two decades has enabled the use of wireless sensor networks with thousands of nodes. In general, these devices are deployed near the phenomenon that we desire to monitor. Sensor networks find applications in various fields, such as health care, structural and environmental monitoring, energy-efficient routing, homeland security, etc. Ad hoc deployments or the use of mobile sensors call for the autonomous organization of networks with the capability to execute distributed data processing. However, the intrinsic restrictions in battery power of individual nodes raise significant challenges in the design and development of signal-processing algorithms for sensor networks. For further information about the topics of interest, please visit:

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Special Issue

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Message from the Editor-in-Chief

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