Special Issue

Digital Signal Processing, Computational Methods and Sensor Networks for Engineering Application

Message from the Guest Editors

Micro-electro-mechanical systems (MEMS) technology has undergone tremendous evolution in recent decades. Mobile sensor networks are capable of joining different data coming from different sources in order to gather a more complete understanding of a diagnostic context; therefore, such sensors networks provide advanced monitoring solutions. Data for such computation are usually fuzzy, and, using artificial intelligence and numerical methods, it is possible to solve many problems.

The scope of this Special Issue is focused on digital signal processing and sensor networks as well as engineering applications in all kinds of applied scientific and practical problems, such as in signal processing, engineering, physics, biology, economics, etc. The aim is to present different types of applications of soft computations, mathematical modeling and digital signal processing.

Keywords: sensor networks, mobile sensor networks, digital signal processing in sensor networks, digital signal processing, mathematical modeling, optimization problems, numerical methods, inverse problems, heuristic algorithms, artificial intelligence, fuzzy logic

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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