Special Issue

Underwater Sensor Networks for Communication, Navigation, and Localization

Message from the Guest Editor

Around 70% of the Earth is covered by water, with numerous submerged locations remaining to be monitored and supervised. Furthermore, there are numerous types of undersea environments. Advances in underwater sensors and underwater sensor networks are making these places more accessible since the sensors are less expensive, have greater computing capability, and use less battery power. Every day, the number of applications for which they can be used expands. Moreover, Autonomous underwater vehicles (AUVs) have the potential to remove humans from dangerous underwater duties such as coral planting and underwater research. Despite decades of development, most underwater robots today are still linked by cables and cannot reach full autonomy. Unmanned aerial vehicles, or AUVs in the air, have experienced tremendous research advancement and have become a popular platform for diverse sensing. More research is needed to improve AUV performance in localization, navigation, and communication. This Special Issue will collect articles on the most recent applications, developments, and problems in underwater sensor nodes and underwater sensor networks.

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Message from the Editor-in-Chief

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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