Integrated Sensing and Communications: Latest Advances and Prospects

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Message from the Guest Editors

At first, dual-function radar communication systems prevailed over the field of joint sensing and communication. However, this area has since evolved into a more complex archetype called integrated sensing and communication (ISAC), which takes into account various types of sensing and communication interactions and considers other sensors besides radar. This Special Issue aims to provide a collection of technical papers from academia and industry, focusing on major trends related to ISAC. Contributions may be focused on topics including but not limited to the following:

Communication technologies assisted by sensors;
Advanced networking technologies assisted by sensors;
Experimental demonstrations and prototypes of ISAC for sensors;
Performance evaluation for ISAC with sensors;
Security and privacy issues of ISAC;
Application of advanced ISAC technologies;
Progress in the standardization of ISAC;
Integrated sensing, communication, and computing for ISAC;
Centralized or distributed machine learning for ISAC.

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Special Issue

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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