Special Issue

Integrated Sensing and Communications

Message from the Guest Editors

In recent years, researchers have started to model, analyse, and implement the first integrated systems, using tools from information and coding theory, communication theory, optimisation, or machine learning and statistics. Nevertheless, key challenges remain because a full theoretical framework for integrated sensing and communication (ISAC) is still missing. The goal of such a framework is to clearly identify the opportunities and limits of ISAC, and to provide intuition and insights for practical implementations. This Special Issue will collect new results (unpublished original work) contributing to such a theoretical framework and describe promising methods (in comprehensive reviews) related to the analysis, modelling, and implementation of ISAC systems.

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

Entropy is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

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