Information Theory in Digital Signal Processing

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Message from the Guest Editors

Recent advances in signal processing and signal representation have brought to the forefront the need for a new understanding of the information content of signals and signal models. Progress, for instance, in sparsity and compressive has led to countless advances in signal processing. However, a deficit in understanding both the information content of the innovative signal processing algorithms and the relations among information content and signal acquirement complexity still exists.

The aim of this Special Issue is to bring together the signal processing, machine learning, and information theory communities. Thus, we encourage researchers to submit their latest works in IT for digital signal processing. Potential subjects include but are not limited to the following:

- Signal processing, e.g., interference alignment, interference cancellation, and other multiuser capability accomplishing methods; full-duplex communication; and information acquisition.
- Statistics and machine learning, e.g., computational efficiency and high-dimensional statistical theory

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Special Issue

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Message from the Editor-in-Chief

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.

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