



Information Theory and Graph Signal Processing

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Deadline for manuscript
submissions:

closed (17 July 2020)

Message from the Guest Editors

Graph signal processing (GSP) is an emerging area of increasing interest. Essentially, the concept of a signal defined in a uniform time or space grid is extended to more general grids and domains. This dramatically opens new possibilities for the signal processing community, by establishing a bridge between signal and data processing. So, currently, many efforts are driven to define concepts, perspectives, and applications to demonstrate that GSP has its own merits regarding other related areas of data processing.

The main goal of this Special Issue is to contribute to progress in GSP by incorporating concepts emanating from information theory. In particular, new developments may include, but are not limited to the following:

- Interpretation of existing concepts and methods of GSP from an information theory perspective.
- New definitions of stationarity, localization, and uncertainty in GSP.
- Connectivity learning: non-Gaussian models, pairwise connections based on information theory concepts.
- New applications of GSP.





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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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