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Information Theory and Network Coding

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Deadline for manuscript submissions:
closed (31 January 2020)

Message from the Guest Editors

This Special Issue aims to bring together a body of recent research in network coding, promote its applications and underscore the important role it continues to play in advancing information theory. We welcome unpublished original contributions to the theory and practice of network coding. Topics of interest include, but are not limited to, the following:

- Fundamental performance bounds or achievability results in information theory via network coding
- Complexity results in information theory via network coding
- Network coding theory and techniques
- Index coding theory and techniques
- Performance characterization and optimization of practical network coding schemes
- Secure, secret or private network coding and index coding
- Network coding for distributed coded computations, caching or storage
- Network coding for communication for omniscience (also known as cooperative data exchange)
- Network coding for edge computing
- Network coding for wireless, cellular or vehicular communication networks

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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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