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Probabilistic Methods in Information Theory, Hypothesis Testing, and Coding

Guest Editor:

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Deadline for manuscript submissions:
closed (31 August 2019)

Message from the Guest Editor

Dear Colleagues,

Probabilistic methods play a key role in establishing direct and converse results in information theory, statistical hypothesis testing and coding. In this Special Issue, we welcome unpublished contributions related to such probabilistic tools and their information and coding-theoretic applications. Examples include probabilistic methods which are used to establish results in channel coding, lossless and lossy source coding such as concentration of measure inequalities, large deviations, method of types, martingales, majorization theory, coupling and Stein's method.

Prof. Dr. Igal Sason
Guest Editor

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Editor-in-Chief

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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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