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Information Theory and Extremal Problems

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Information theory is rife with extremal problems, from the determination of the capacity region of a channel or network to problems of data compression and machine learning. On the other hand, a variety of extremal problems in mathematics, including in convex geometry, combinatorics, and probability, can be cast very naturally in information-theoretic terms, leading to solutions in many cases.

This Special Issue solicits original papers (including surveys) that explore extremal problems in mathematics or engineering that have a description involving information measures such as Shannon entropy, relative entropy, or the larger families of Rényi entropies and Ali–Silvey– Csiszár–Morimoto f-divergences.

Dr. Mokshay Madiman 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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