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The Interplay between Storage, Computing, and Communications from an Information-Theoretic Perspective

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Message from the Guest Editors

Dear Colleagues,

In the age of the internet of things, billions of physical devices with local computational power and local data storage are connected through ubiquitous communication links. This has led to the distribution of logical computations and storage across many physical devices, enabling a multitude of new applications. These applications have created a complex intertwined relationship among storage, computing, and communications.

This special issue aims to consolidate recent advancement in the fundamental understanding of problems that build on the interplay between storage, computing, and communications. More specifically, these problems study how to efficiently perform tasks, from an information-theoretic perspective, that jointly optimizes distributed computation at different nodes and communications among them through the use of local storage.

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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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