Special Issue

Entropy in Networked Control

Message from the Guest Editor

Networked control systems are spatially-distributed systems in which the communication between sensors, controllers, and actuators is accomplished through a shared digital communication network. Examples can be found, e.g., in vehicle tracking, underwater communications, remote surgery, and space exploration. In the simplest model, the communication network is displayed as a rate-limited digital channel over which state information acquired by sensors is transmitted to a controller. The most fundamental problem in this context is to determine the smallest information rate above which a specified control objective can be achieved. This Special Issue features research involving information-theoretic and/or dynamical concepts of entropy in the context of control under communication constraints. In addition, contributions related to the classical data-rate theorem are welcome. Dr. Christoph Kawan

Guest Editor

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About the Journal

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.
Entropy is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

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