



Entropy in Networked Control

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Message from the Guest Editor

Dear Colleagues,

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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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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