



entropy



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Entropy in Networked Control

Guest Editor:

Dr. Christoph Kawan

Fakultät für Informatik und
Mathematik, Universität Passau,
Innstraße 33, 94032 Passau,
Germany

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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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Special Issue



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Editor-in-Chief

Prof. Dr. Kevin H. Knuth

Department of Physics, University
at Albany, 1400 Washington
Avenue, Albany, NY 12222, USA

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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Entropy Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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