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Information Theory in Control Systems II

Guest Editor:

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Deadline for manuscript submissions:
25 December 2024

Message from the Guest Editor

The aim of this Special Issue on "Information Theory in Control Systems" is to present new theoretical developments and potential applications bridging the areas of control, communications, and information theory.

Topics of the issue include, without being restricted to, the following:

- Networked control systems under communication constraints;
- Estimation and filtering theory for multisensor systems;
- Sampled-data control for networked control systems;
- Stochastic optimal control with randomized control strategies;
- Entropy-based approaches in optimal control;
- Feedback control, state-estimation, and consensus problems for multiagent systems;
- Entropy methods in estimation problems;
- Fault-tolerant control design for networked control systems with communication constraints;
- Feedback control under fading communication channels;
- Event-triggered control and filtering for multiagent systems;
- Security control of networked systems under data availability and integrity attacks.

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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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