Entropy and Stochastic Distribution Optimization for Large-Scale Dynamical Systems

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Message from the Guest Editors

This topics of interest of this Special Issue include but are not limited to the following research area:

- Machine-learning-based system design, fault diagnosis, tolerant control;
- Data-driven filtering and monitoring for stochastic dynamic systems;
- Stochastic distribution generation via dynamical data sets;
- Entropy optimization and modeling for performance enhancement;
- Nonlinear system control with randomness attenuation;
- Entropy-based image, signal processing and classification;
- Decision-making, management, and planning for stochastic systems;
- Mathematical extensions for entropy analysis.

Deadline for manuscript submissions:
30 December 2022
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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