Special Issue

Entropy and Optimal Control: Theory and Applications

Message from the Guest Editor

We welcome research papers that address theoretical aspects or proposed methodologies for static and dynamic optimization with theoretical support on established formal frameworks or novel ideas. We particularly seek theoretical considerations or practical methodologies that are applicable to multi-domain systems. Topics of interest include, but are not limited to, the following:

- Thermodynamic and thermodynamics-inspired optimization with optimal control.
- Interpretations of the second law beyond thermodynamics, with a focus on variational principles and optimal control.
- Entropy minimization/maximization in systems analysis and optimal control and design.
- The optimal control of port-Hamiltonian and port-thermodynamic systems.
- Novel methodologies for optimal control based on thermodynamics.

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.

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.

Editor-in-Chief

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