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Thermodynamic Optimization

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Deadline for manuscript submissions:

closed (30 April 2020)

Message from the Guest Editors

Dear Colleagues,

There has been significant progress in the applications of thermodynamic optimization in various thermal and/or energy systems ranging from exergy analysis, exergetic based optimization, application of optimization in several systems such as power plants (e.g., fossil fuel based power plants, renewable based power plants and even their integration), fuel cell systems and their integration, chemical processes (e.g., petrochemical plants, biomass gasification, and ammonia synthesis), low exergy systems for high-performance buildings, distillation and desalination, waste heat recovery (WHR) and the organic Rankin cycle (ORC), advanced cooling and heating systems, energy storage systems, integrated energy systems (e.g., cooling and heating plant (CHP), combined cooling and heating plant (CCHP) and multi-generation), multi-objective optimization, lifecycle optimization, etc.

We cordially invite researchers, students and engineers to submit their research papers related to thermodynamic optimization of energy systems for consideration in this Special Issue.

Dr. Pouria Ahmadi

Dr. Behnaz Rezaie

Guest Editors



mdpi.com/si/17608

Special Issue



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Editor-in-Chief

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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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Journal Rank: JCR - Q2 (*Physics, Multidisciplinary*) / CiteScore - Q1 (Mathematical Physics)

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