Special Issue

Thermal Radiation and Entropy Analysis

Message from the Guest Editor

Development of modern engineering devices including heat exchangers, chemical reactors, electronic devices and others demands the deeper understanding of transport processes within systems. Analysis of the thermal radiation in the case of high or moderate temperatures is very important and it should be attended by the entropy generation analysis. The entropy generation minimization technique can be employed for an optimization of technical systems including heat exchangers, elements of nuclear and thermal power plants, ventilation and air-conditioning systems and so on. This method for analysis of technical systems includes the impacts of various loadings on the system effectiveness that an irrespective of the technical and economic study, allows to evaluate the basic functionability of system. This Special Issue will be an opportunity for extending the research fields of thermal radiation and entropy generation analysis in all aspects of the fundamental and practical researches. It is a very good chance to collect original studies on the considered topic to present useful guidelines for future researches.

Guest Editor

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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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Editor-in-Chief

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