Special Issue

Entropy in Fault Diagnosis

Message from the Guest Editors

Intelligent signal processing algorithms and analysis methods play a pivotal role in fault diagnosis. For accurate fault diagnosis, data must be preprocessed and turned into a convenient form before knowledge can be acquired.

A wide class of fault detection algorithms are entropy-based techniques. However, direct application of entropy-based methods for feature extraction may not avoid the side effects of noise in the data. Therefore, entropy-based methods are often used as a fault detection technique only after initial feature extraction techniques.

This Special Issue aims to aggregate the latest research results contributing to theoretical, methodological, and technological advances in using entropy-based methods for the detection of anomalies, forecasting potential degradation, and classifying faults from complex environments and signals. The high quality theoretical and application papers that treat various fault detection and diagnosis problems using the entropy-based approach or its combination with other approaches are also welcomed.

Guest Editors

Prof. Dr. Minvydas Ragulskis

Prof. Dr. Maosen Cao

Prof. Dr. Rafal Burdzik

Prof. Dr. Vinayak Ranjan

Dr. Grigory Panovko

Deadline for manuscript submissions

closed (30 June 2022)

Entropy

mdpi.com/journal/
entropy

About the Journal

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

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

Author Benefits

Open Access:
free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:
indexed within Scopus, SCIE (Web of Science), Inspec, PubMed, PMC, Astrophysics Data System, and other databases.

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