Special Issue

Information Theory and Its Application in Machine Condition Monitoring II

Message from the Guest Editors

Condition monitoring (CM) techniques have been rapidly advanced in recent years for promoting the productivity and reliability of large-scale engineering systems. This advancement is greatly impacted by the progress in information theory and computing technologies, as evidenced by many published works in CM fields dealing with topics such as Shannon entropy, Lempel-ziv complexity, and permutation entropy. As a statistical measure, information theory can be used to quantify complexity and detect the dynamic change by taking into account the nonlinear behavior of time series. The information theory can be served as a promising tool to extract the dynamic characteristics of machines, which is useful to develop effective condition monitoring techniques. The last decade has witnessed an increasingly growing research interest in information theory. This Special Issue aims to provide a platform to present high-quality original research as well as review articles on the latest developments in information theory and its application to machine condition monitoring.

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Deadline for manuscript submissions

closed (31 July 2022)

Entropy

an Open Access Journal by MDPI

Impact Factor 2.1
CiteScore 4.9
Indexed in PubMed

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.

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