Special Issue

Diagnosis and Prognosis of Incipient Faults Using Information Processing or Machine Learning, and Deep Learning

Message from the Guest Editors

The aim of this Special Issue is to provide a forum for academics and the industry to discuss significant recent advances in the development of tools and methods derived from information theory (distance and divergence) and systems theory and their application in accurately diagnosing incipient faults in a timely manner, thus predicting their evolution and assessing the RUL. Discussions on computational requirements (quantity of data and computational capabilities), as well as the tolerance of uncertainties, are welcome. The Special Issue is also an opportunity to discuss the standards and best practices (sensor technologies, dataset building, performance comparison, guidelines, etc.) and future trends. The Special Issue is open to all application sectors, including biomedical, transport, energy production, etc.

Guest Editors

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Prof. Dr. Demba Diallo

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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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