Special Issue

Fault Diagnosis and Electronic Engineering in Symmetry

Message from the Guest Editor

Symmetry is a fundamental feature in the scientific and engineering world. In the context of fault diagnosis, symmetry can be related to the classification of fault types. For example, in power systems where the faults need to be detected by electronic devices, symmetrical faults denote a type of fault where the parameters of the three-phase circuit are symmetrical. In the broader context of electronic system fault diagnosis, this symmetry-based fault classification method can also be utilized to identify and handle faults more accurately. Intelligent diagnosis employs artificial intelligence and machine learning techniques to enhance the accuracy and efficiency of fault diagnosis. By training models to recognize fault patterns, the rapid identification and location of faults can be achieved. The models usually have a symmetrical nature by their own. Contributions covering the symmetry of fault characteristics or diagnostic methods are welcome.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

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