Special Issue

Data Anomaly Detection, Reconstruction and Structural Fault Diagnosis for Structural Health Monitoring

Message from the Guest Editors

Topic of Interest: In light of the current progress in the fields of SHM and deep learning, this Special Issue aims to collect state-of-the-art contributions on the latest research and applications, up-to-date issues, as well as challenges of the big data problem of SHM. We invite researchers from academia and industry to submit their high-quality research and practical findings in using deep learning to detect data anomalies and diagnose structural faults or damages for SHM purposes. Topics of interest for this Special Issue include, but are not limited to:

- Data anomaly detection for SHM using deep learning;
- Data reconstruction for SHM using deep learning;
- Fault diagnosis for SHM using deep learning;
- Structural damage identification based on deep learning;
- Structural load identification based on deep learning;
- Structural pattern recognition employing deep learning;
- Infrastructure management using deep learning;
- Practical validations of deep learning in the field of SHM;
- Engineering applications of SHM.

Guest Editors

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Deadline for manuscript submissions

closed (20 May 2022)

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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