Special Issue

Topology Modeling and Fault Analysis of Complex Systems

Message from the Guest Editors

This Special Issue, entitled “Topology Modeling and Fault Analysis of Complex Systems”, aims at discussing recent advances, collecting new ideas, and presenting excellent research outcomes related to topology modeling, fault diagnosis, alarm monitoring, heath management, and root cause analysis in complex systems. Specifically, this Special Issue will accept unpublished research papers focusing on (but not restricted to) the following topics:

- Knowledge-based or information-theory-based topology modeling;
- Entropy-based techniques for causality analysis;
- Data-driven fault detection, diagnosis, and isolation;
- Deep learning for system monitoring, soft sensing, and fault diagnosis;
- Causality inference for root cause analysis;
- Prognostics and health management of complex equipment;
- Advanced alarm monitoring and alarm system design;
- Applications of topology modeling and fault analysis in complex systems.

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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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