Hysteresis in Engineering Systems

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Deadline for manuscript submissions:
closed (20 September 2023)

Message from the Guest Editors

The main objective of this proposed Special Issue is to collect contributions from active researchers in the field of hysteresis, and from structural, electrical, materials and other engineering fields. It will act as a platform for sharing, for instance, the latest developments in this field, including new modeling techniques, or the system identification of complex hysteresis models. Topics such as:

- Nonlinear phenomena in hysteretic systems;
- Hysteresis in the study of magnetic fields;
- Analytical models for predicting and analyzing hysteretic behavior;
- The role of hysteretic restoring force on modal interactions;
- Hysteresis in mechanical systems modeling and dynamic response;
- Hysteresis modeling applications in electrical engineering;
- Advances in hysteresis modelling;
- The use of smart materials in the modelling of hysteresis systems;
- Hysteresis and its measurement;
- Artificial-intelligence-based methods for modeling hysteresis;
- System identification of hysteretic systems;
- Hysteresis in seismic analysis;
- Study of Bouc–Wen–Baber–Noori model and its applications;

Special Issue

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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.

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