



Electromechanical Equipment Structure and Fatigue Reliability: Advances in Modeling and Testing

Guest Editors:

Dr. Pengpeng Zhi

Yangtze Delta Region Institute
(Huzhou), University of Electronic
Science and Technology of
China, Huzhou 313000, China

Prof. Dr. Zhonglai Wang

School of Mechanical and
Electrical Engineering, University
of Electronic Science and
Technology of China, Chengdu
611731, China

Deadline for manuscript
submissions:

20 October 2024

Message from the Guest Editors

Dear Colleagues,

As the demand for the reliability of electromechanical equipment such as aircraft, industrial robots, and high-speed trains increases, computer-aided modeling and testing have become extremely significant. With the help of advanced modeling/testing techniques and mathematical approaches/tools, currently, research interest is being directed towards new techniques to discover and understand the structure and fatigue reliability of electromechanical equipment. Specifically, failure occurs under the influence of multi-sources of uncertainty, including load variations in usage, material properties, geometry variations within tolerances, and other uncontrolled variations. Thus, advanced methods and applications for modeling and testing contributions that address these issues on structure and fatigue reliability of electromechanical equipment are desired and expected.

This Special Issue aims to invite authors to submit full-length papers with original theoretical, numerical or experimental research contributions and innovative concepts that address all aspects of structure and fatigue reliability for electromechanical equipment.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)