



Alternative Techniques in Vibration Measurement and Analysis

Guest Editor:

Prof. Dr. Marco Troncosi

Department of Industrial
Engineering, University of
Bologna, 40131 Bologna, Italy

Deadline for manuscript
submissions:

closed (20 January 2023)

Message from the Guest Editor

This Special Issue is intended to gather a collection of papers where alternative approaches to vibration data acquisition and analysis are compared and critically discussed in order to bring out the corresponding strengths and weaknesses (very often strictly dependent on specific applications).

Topics of interest include, but are not limited to, review and comparative studies among:

- Sensors (e.g., effectiveness of different transducers, performance of different sensor models, effectiveness and efficiency of alternative sensors setup, etc.);
- Application-driven techniques of signal processing (e.g., for fault detection, diagnostics and prognostics of machinery and civil structures, system dynamics identification, real-time active control of vibrations, etc.);
- Signal processing techniques to optimally extract meaningful information from vibration data (e.g., Time- vs. Frequency- vs. Time/Frequency Domain analyses, definition of metrics and/or indices to evaluate certain events, etc.);
- Modal testing techniques (e.g., Experimental vs. Operational Modal Analyses, Displacement vs. Strain modal testing, etc.);





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](#)