

## Special Issue

# Stochastic and Non-Linear Vibrations, and Their Applications to Mechanical and Structural Reliability

### Message from the Guest Editor

The vast majority of practical mechanical components and structures in mechanical, aerospace, civil infrastructure, automotive, green power, and offshore and naval engineering applications operate under complex in-service loading and operating environments including humidity and high or low temperature environments. Such in-service loadings and operating environments are predominantly dynamic and stochastic in nature. In-situ in-service material strength, stiffness, and failure properties possess significant variability and nonlinearity due to damage development and progression such as fatigue.

Considering this field's importance and relevance, this Special Issue is devoted to this important field of engineering research. Unpublished and original research works that concern with various aspects of vibrations of mechanical and structural systems, under stochastic loadings or service environments, and/or with stochastic or non-linear system properties and behaviour, are invited for consideration for publication in this Special Issue.

---

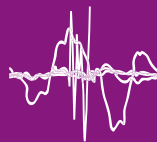
### Guest Editor

Prof. Dr. Rajamohan Ganesan  
Department of Mechanical, Industrial and Aerospace Engineering,  
Concordia University, Montreal, QC H3G 1M8, Canada

---

### Deadline for manuscript submissions

closed (31 August 2019)



## Vibration

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.6  
CiteScore 3.4

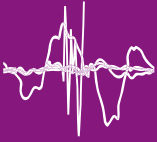


[mdpi.com/si/20765](https://mdpi.com/si/20765)

*Vibration*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[vibration@mdpi.com](mailto:vibration@mdpi.com)

[mdpi.com/journal/  
vibration](https://mdpi.com/journal/vibration)





# Vibration

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.6  
CiteScore 3.4



[mdpi.com/journal/  
vibration](https://mdpi.com/journal/vibration)



## About the Journal

### Message from the Editor-in-Chief

---

#### Editor-in-Chief

Prof. Dr. Aleksandar Pavic

College of Engineering, Mathematics and Physical Sciences, University  
of Exeter, Kay Building, Exeter EX4 4QF, UK

---

#### Author Benefits

##### High Visibility:

indexed within Scopus, ESCI (Web of Science), and other  
databases.

##### Journal Rank:

CiteScore - Q2 (Engineering (miscellaneous))

##### Rapid Publication:

manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 20.8 days after  
submission; acceptance to publication is undertaken in 3.6  
days (median values for papers published in this journal in  
the second half of 2025).