



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

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (31 August 2019)**

### Message from the Guest Editor

Dear Colleagues,

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 Unpublished and original research works that concern with various aspects of vibrations of mechanical and structural systems, under stochastic loadings or service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.

Prof. Dr. Rajamohan Ganesan  
Guest Editor



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# Special Issue