

Special Issue

Dynamics Control and Vibration Monitoring in Industrial Machines

Message from the Guest Editors

This Special Issue will provide a forum for researchers and practitioners to exchange their latest theoretical and engineering achievements in the analysis of dynamic phenomena of industrial machines. Results of on-site experimental research are mostly encouraged for submission. The theoretical papers accepted into this Special Issue are expected to contain original ideas and potential solutions available for real problems resolving. Topics include, but are not limited to:

- Model-based control of machines dynamics and process supervision;
- Influence of treated material on machines dynamics;
- Active vibration control and passive damping;
- Case studies of different resonances in the machines;
- Methods of signal processing and data mining for faults diagnostics;
- Torsional vibrations in the drivelines of rotating machines;
- Self-excited vibrations (friction-induced and regenerative chatter);
- Shock and vibration in high-power hydraulic systems;
- Modal analysis and design optimization of the multi-body systems;
- Diagnostics of clearances in the bearings and powertrains couplings;
- Instrumentation for condition monitoring in a harsh environment;

Guest Editors

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Deadline for manuscript submissions

closed (31 July 2023)



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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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