



Machine Learning for Noise and Vibration Engineering

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Deadline for manuscript submissions:

closed (30 September 2022)

Message from the Guest Editors

Machine learning techniques offer new pathways in noise and vibration engineering. New modeling techniques emerge that make use of large data sets, pattern recognition deepens the insight into noise and vibration phenomena, and new algorithms can “learn” to identify the dynamic properties of mechanical structures. The Special Issue “Machine Learning for Noise and Vibration Engineering” aims at reporting on machine learning techniques in noise and vibration engineering. Authors are invited to submit their original work, including but not limited to:

- Artificial neural networks, deep learning including statistical analyses and explainability techniques;
- Data-driven vibration and acoustic modeling techniques;
- Inverse problems in vibration and acoustics based on machine learning;
- engineering noise control by means of data-driven approaches;
- Pattern recognition and pattern prediction including applications in vibration and acoustic-based condition monitoring;
- Identifying, quantifying, and controlling uncertainty of data-driven models.





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Message from the Editor-in-Chief

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