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Nondestructive Technologies for Complex Engineering Structure Health Monitoring and State Prediction

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Deadline for manuscript submissions:
closed (20 January 2024)

Message from the Guest Editors

Dear Colleagues,

The health status and state prediction of key engineering structures, which generally have complex geometries, are vital to the safety of important equipment. The nondestructive sensing technologies (including magnetic sensors, optical sensors, and vibrational sensors) and state prediction technologies (such as AI algorithms) help realize the monitoring and evaluation of health structures. This Special Issue seeks to gather the latest developments in nondestructive health monitoring technologies and new processing methods for the state prediction of the complex engineering structure. Topics of interest include, but are not limited to:

- Quality evaluation of additive manufacturing
- Quality and health evaluation of weld
- Artificial intelligence
- Digital twin technologies
- Advanced system design and signal processing
- Robot carried automated NDT system
- Structural health monitoring of carbon fiber reinforced polymer
- Visualization and interpretation of data

Please contact the Guest Editors or the Assistant Editor at (ava.jiang@mdpi.com) for any queries. Please access the website for more information.
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Message from the Editor-in-Chief

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