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Advanced Signal/Data Processing for Structural Health Monitoring

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Deadline for manuscript submissions:
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Message from the Guest Editor

Dear colleagues,

Structural health monitoring (SHM) has gained significant importance for aerospace, civil, and mechanical engineering infrastructures as well as energy supply systems and numerous other industrial installations. Structural damage detection is a key element in SHM systems and the practical implementation of damage detection strategies to real-world structures outside of laboratory conditions is one of the most challenging tasks for engineering community.

Recently, the majority of studies in SHM have been focused on developing cost-effective, automatic, and reliable damage detection technologies for SHM applications. It is generally agreed that signal/data processing will play an important role in the implementation of these technologies. Moreover, processing and interpreting the massive amount of data (big data) generated through long-term monitoring of huge and complex civil infrastructure (e.g., bridges, wind turbines, etc.) is an emerging challenge that needs to be urgently addressed by the SHM community...

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Message from the Editor-in-Chief

Our primary goal is to encourage scientists and engineers to publish their theoretical results and developed methods in as much detail as possible. There is no limit to the maximum length of papers. Whenever possible, authors are encouraged to provide relevant data and developed code so that the results can be reproduced. Our goal is to provide a platform for scientists and engineers to share new approaches to signal processing in various application domains.

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