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# **Feature Extraction and Condition Monitoring in Physics and Mechanics**

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# **Message from the Guest Editors**

This special issue focuses on the scientific examinations dealing with the behavior of macroscopic systems using the statistical properties of their microscopic components. The statistical physics and mechanics covers a wide range of topics, including microscopic behavior of physical systems, quantum statistical physics, condensed matter, equilibrium non-equilibrium, and thermodynamics, biological and chemical systems such as cell physics, polymer and colloids, fluid mechanics related topics including turbulence, instability and reaction dynamics as well as other interdisciplinary applications. In engineering applications, such as mechanical engineering or electronics engineering, engineers may usually consider it as the output or response of a differential system or filter of integer order under the excitation of white noise. This Special Issue encourages both original research articles and review articles, both theories and applications in advanced statistical and mathematical modeling and indepth examinations of the physical and mechanical systems.











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# Message from the Editor-in-Chief

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