Special Issue

Robust Measurement and Control Under Noise and Vibrations

Message from the Guest Editors

Modern sensing and control systems frequently operate in complex environments where noise and vibrations degrade measurement accuracy and system performance. Ensuring reliable operation under such conditions is critical for applications ranging from industrial automation and robotics to structural health monitoring and biomedical sensing. This Special Issue focuses on innovative approaches to enhance the robustness of sensing, signal processing, and control strategies in noisy environments. We welcome contributions on advanced sensor technologies, signal denoising techniques, machine learning-based noise reduction, and control methods designed to mitigate disturbances. Research on adaptive filtering, sensor fusion, and nonlinear system identification in the presence of noise is also highly relevant. Potential topics include, but are not limited to, novel hardware designs for noise-resilient sensors, intelligent algorithms for real-time signal enhancement, and control techniques that ensure system stability despite external disturbances.

Guest Editors

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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