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Sensors and Smart Devices for Structure Health Monitoring

Guest Editors:

Dr. Mengyan Nie

Institute for Materials Discovery,
University College London,
London WC1E 7JE, UK

Dr. Yi Ou

Institute of Microelectronics,
Chinese Academy of Sciences,
Beijing 100029, China

Prof. Dr. Julian Wharton

National Centre for Advanced
Tribology at Southampton,
University of Southampton,
Southampton, UK

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Message from the Guest Editors

The performance and integrity monitoring of engineering components, machinery, and engineered systems are crucial for cost-effective condition-based maintenance programs, as are a better understanding of how machines and engineering systems perform and the ability to predict and prevent in-service failure. Reliable sensing systems and robust fault prognosis and diagnosis methods are essential to achieve these goals: Sensors for monitoring physical, chemical, biological, corrosion, tribological, tribocorrosion properties of engineering components; Sensors for harsh operational conditions; Self-powered sensing devices, especially for offshore structures or infrastructures in remote areas; Smart devices, especially integrated sensing devices for structural health and integrity monitoring; Data processing and signal processing for fault detection and diagnosis; Reliability assessment of prognosis methods. However, more topics will be considered if they align with this theme.



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Special Issue



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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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