

# Editor's Letter

Dear Authors, Readers,

Maintenance is a key element of modern industries. Maintenance costs, across industries, are significantly high as they help keep assets functional and allow organisations to meet their targets. Asset management, condition monitoring, risk and reliability analysis help enhance plant availability and reliability and safety. The improvements in reliability, condition monitoring and maintenance reduce operational cost, plant downtime and safety. This eventually dictates the global competitiveness of organisations. Although a notable number of companies have successfully attained maintenance excellence, the platforms for sharing practical plant maintenance knowledge and techniques are still limited when compared to other fields of engineering.

Technology is rapidly evolving. The “Fourth Industrial Revolution” is shaped by the growing ubiquity of Industrial Internet of Things (IIoT) and making use of tools, such as Artificial Intelligence and data analysis, to solve industrial problems. Our dependency on technology is also growing in industrial maintenance techniques under the umbrella of the Industry 4.0. However, the subject matter understanding is important to get accurate asset condition information from existing systems.

The Journal of Maintenance, Reliability and Condition Monitoring provides a common platform for professionals, engineers, practitioners and researchers. It provides those, working in plant maintenance and reliability, to share their experience by publishing their findings.

The scope of the journal covers multi-disciplinary interests in the fields of plant maintenance, asset management, reliability, condition monitoring and related areas, ranging from fundamental research to real-world applications. The journal covers the following, but not limited to, areas:

- Acoustics monitoring
- AI, big data, machine learning
- Asset management
- Computer in maintenance and asset Management
- Condition-based maintenance
- Condition monitoring
- FMEA, FTA, RPN
- Decision making analysis
- Digital twin
- eMaintenance, mobile technology
- Health, safety and environment
- Industry 4.0
- IIoT
- Life cycle cost optimisation
- Machine health monitoring
- Machine lube oil analysis and monitoring
- Maintenance auditing
- Maintenance system and modelling
- Maintenance organisation
- Maintenance performance measurement
- Non-destructive testing
- Preventive, predictive maintenance
- Plant life extension
- Plant outage/turnaround management
- PHM – Prognosis and Health Management
- RCM – Reliability Centred Maintenance
- Reliability, maintainability and risk
- Residual useful life estimation
- Safety analysis
- Spare parts optimisation
- Supply-chain analysis
- TPM – Total Productive Maintenance
- Vibration-based fault diagnosis

Editor in Chief  
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