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Proceedings of IncoME-VI and TEPEN 2021

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Preface

Hebei University of Technology and WorldTech Intelligence, Tianjin, China, organised The Efficiency and Performance Engineering Network 2021 (TEPEN 2021) and Sixth International conference on Maintenance Engineering (IncoME-VI) on 20th–23rd October 2021.

The goal of TEPEN 2021 and IncoME-VI is to provide a common platform by which professionals, engineers, practitioners and researchers working in the field of condition monitoring, plant maintenance and reliability can share their experiences. The scope of the conference covered a broad area with multidisciplinary interests in the fields of plant maintenance, asset management, reliability, condition monitoring and related areas, ranging from fundamental research to real-world applications.

In this conference, participations and contributions were involved in both theoretical research and practical applications of all aspects of fault detection, diagnostics, prognostics in both the operational and manufacturing processes. In the course of this event, eight keynote speeches and parallel technical sessions were delivered in accordance with key following topics:

- Vibro-acoustics Monitoring
- Asset Management
- Condition-based Maintenance
- Condition Monitoring and Reengineering
- eMaintenance, Mobile Technology
- Health, Safety and Environment
- Sensors and Instrumentation
- Life Cycle Cost Optimisation
- Machine Health Monitoring
- Machine Lube Oil Analysis and Monitoring
- Artificial intelligence, Machine Learning
- Plant Outage
- Maintenance Auditing
- Prognostics and Health Management
- Maintenance Organisation

- Maintenance Performance Measurement
- Non-Destructive Testing
- Manufacturing Process Monitoring
- Reliability, Maintainability and Risk
- Signal and Image Processing Methods

Despite the challenging circumstances of year 2021, this book consists nonetheless of 87 peer-reviewed papers. The book offers the state of the art of advances in asset management and condition monitoring and also serves as an excellent reference work for academic and industrial scientists and graduate students, working in asset management, condition monitoring and related areas.

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