

1. Record Nr.	UNINA9911049210603321
Autore	Wei Kexiang
Titolo	Proceedings of the UNified Conference of DAMAS, IncoME and TEPEN Conferences (UNified 2025) : Volume 1 // edited by Kexiang Wei, Wenxian Yang, Juchuan Dai, Bingyan Chen
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
ISBN	3-032-00968-5
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (1506 pages)
Collana	Mechanisms and Machine Science, , 2211-0992 ; ; 188
Altri autori (Persone)	Wei
Disciplina	670
Soggetti	Industrial engineering Production engineering Mechatronics Machinery Robotics Industrial and Production Engineering Machinery and Machine Elements Robotic Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Short-term Wind Power Prediction Based on SNAO-BITCN-BIGRU-A -- Research on Independent Pitch Control of Wind Turbine Based on Whale Optimization Algorithm -- Research on parameter-based adaptive FMD in fault diagnosis -- A Non-Intrusive Load Event Detection Method Based on the Isolation Forest Algorithm and a Two-Layer Filtering Mechanism -- Research on the Impact of Inter-Pole Magnetic Fields in Multi-Pole Series DC Circuit Breakers on Arc Movement Characteristics -- Short-term Wind Power Prediction Based on PKZOA-CNN-BiLSTM Model -- A Lithium Battery SOC Estimation Method Based on a Fractional-Order Model and the SRCKF Algorithm -- Remaining Useful Life Prediction for Bearings Enabled by Automated Feature Selection and Dual-Channel Transformer -- Fault Feature Extraction Of Motor Bearing Based On EBSLO-VMD -- Genetic Algorithm Optimized Variational Time-domain Decomposition: A Multi-source Impact Extraction Method for Reciprocating Machinery -- Intelligent Fault

Diagnosis Of Motor Vibration Signals Based On A Hybrid SDP-CNN-BiLSTM Approach.

---

Sommario/riassunto

This book gathers the latest advances, innovations and applications in the field of condition monitoring, damage assessment and maintenance engineering, as presented by leading international researchers and engineers at the UNified Conference of DAMAS (International Conference on Damage Assessment of Structures), IncoME (International Conference on Maintenance Engineering) and TEPEN (The Efficiency and Performance Engineering), held in Zhangjiajie, China, on May 16–19, 2025. Topics include machinery dynamics, sensors and measurement systems, signal processing, structural damage identification and machine fault diagnosis, plant maintenance and reliability, machine health monitoring, asset management, life-cycle cost optimization, prognostics and health management, maintenance performance measurement, manufacturing process monitoring and robot-based monitoring and diagnostics. The contributions, which were selected through a rigorous international peer-review process, share exciting ideas that will spur novel research directions and foster new multidisciplinary collaborations.

---