



WCCM2026

The 4th World Congress on Condition Monitoring 25-27 August 2026 Milan, Italy

PREMILINARY PROGRAMME (subject to changes)

Tuesday, 25 August 2026			
	MAGGIORE room		
08:30	Registration		
	OPENING SESSION		
09:15	welcome addresses		
09:30	PLENARY LECTURE 1		
	MAGGIORE room	MORANDI room	A room
	Condition monitoring technologies and systems	Condition monitoring technologies and systems	SS9: Condition Monitoring, Prognostics, and Control of Batteries I
			chair: Changfu Zou
10:00	DISTINGUISHED LECTURE 106- Mobile robot based inspection of large scale infrastructure in extreme conditions - a mining industry case study - Zimroz, R. - Wroclav University of Science, Poland	DISTINGUISHED LECTURE - Couture N. – ASNT (The American Society for Nondestructive Testing), USA	44- Computational Efficiency Enhancement for Generating Safe Connection Paths in Reconfigurable Battery Systems - Mao, E., Geng, C., Han, W.
10:20	DISTINGUISHED LECTURE 116- From Anomaly Detection to Intelligent Digital Twins - Lacaille, J. - Safran Aircraft Engines, France	DISTINGUISHED LECTURE - Kar C. - Honeywell, United Arab Emirates	49- Transformer-Based Required State-of-Charge Forecasting and Data-Driven Adaptive Charging Strategies for Electric Vehicles - Haj Ali, M., Al Osman, H., Heiries, V.
10:40	DISTINGUISHED LECTURE 139- New analysis tools for the diagnosis of gear systems - Combet, F. - EES – Dynae, France	DISTINGUISHED LECTURE - Walker J. - Highfield Gears and Machining Ltd, UK	50- Remaining capacity estimation of massive retired lithium ion batteries using consecutive short pulse combinations - Tao, S., Xia, C., Zou, C.
11:00	158- Active State Monitoring and Goal-Oriented Autonomous Control for Dynamic Systems with Time-Varying Unknown Targets - Li, L., Li, Q., Wan, H., Luan, X., Wang, C., Ping, X.		56- Remaining Useful Life prediction of Li-ion batteries via Degradation Mode forecasting using Physics-Informed Machine Learning - Bigouraux, Q., Heiries, V., Aloui, S., Laurin, A., Chandesris, M.
11:20	Coffee break		



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	SS9: Condition Monitoring, Prognostics, and Control of Batteries II	Condition monitoring technologies and systems	Condition monitoring technologies and systems
	chair: Changfu Zou		
11:40	83-Pulsed-based state-of-health estimation of randomly retired second-life batteries - Zhu, Q., Wik, T., Hu, L., Tao, S.	DISTINGUISHED LECTURE - A software and hardware system for condition monitoring and lifetime research of stationary process equipment in hazardous production facilities - Raji A. - Cape Peninsula University of Technology, South Africa	DISTINGUISHED LECTURE 178-Delivering Value Through Condition Monitoring in Large Power Generation Fleets: An Eskom RT&D Perspective - Madiba P., Eskom Holdings SOC Limited, South Africa
12:00	84-Simplified Modeling Approach for Predicting the Remaining Useful Life of EV Batteries in Second-Life Applications - Montaru, M., Guillet, N., Lonardoni, L., Serra, L.	109-Physics-Statistics Guided Instruction Tuning: Constructing High-Quality Corpora for Trustworthy Bearing Fault Diagnosis - Jiang, J., Wang, T., Xie, J.	DISTINGUISHED LECTURE - Orumwense E. - Cape Peninsula University of Technology, South Africa
12:20	93-A Fast Autoencoder-Based SoH Estimation Method for Lithium-Ion Batteries Second Life Applications - Klingelhofer, F., Laurin, A.	137-An Interpretable Stockwell Convolutional Neural Network for Rotating Machinery Fault Diagnosis - liu, J., Liu, X., guoxin, W., liu, Y.	DISTINGUISHED LECTURE - Papaelias M. - University of Birmingham, UK
12:40	94-Fast diagnosis for SOH estimation of 2nd life battery modules - Montaru, M., Guillet, N., Cassarino, L., Tanguy, Y., Lonardoni, L., Serra, L., Arnal, C.	161-Open-set fault diagnosis via orthogonal decoupling and purity-aware extreme value theory - Zhang, J., Qi, J., Wang, H., Shi, L., Lin, C., Kong, Y.	
13:00	Lunch		
14:00	PLENARY LECTURE 2		
	SS6: Artificial Intelligence and Advanced Signal Processing for Condition Monitoring I	Fault Diagnosis and Prognostics I	SS11: Intelligent Sensing and Diagnostic Technologies
	chair: Radek Martinek		chair: Jing lin
14:30	DISTINGUISHED LECTURE - Advanced Digital Signal Processing Methods for AI-Based Condition Monitoring - Martinek, R. - VSB – Technical University of Ostrava, Czech Republic	DISTINGUISHED LECTURE - 159-Reinforcement Learning-Based Real-Time V2G Dispatch for Renewable-Rich and Uncertain Load Conditions - Hlalele, T. - University of South Africa	151-Microstructure Identification from AE under Heterogeneous Conditions via Invariant Representation Learning – Xu K., Zhang, W., Wang, L., He, J.



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14:50	59-Baseline-Free Graph-Transformer Learning for Lamb Wave-Based Structural Health Monitoring of CFRP Composites - Luo, K., Ye, L., Liu, Z.	DISTINGUISHED LECTURE 188- Minimum Entropy Decomposition Application for Bearing Fault Analysis in a Permanent Magnet Motor - Ganeriwala, S. - Spectraquest, USA	185-A 1D-ResNet Approach for Direct Coordinate Regression of Damage Localization on Variable-Thickness Blades - Du, D., Yu, F., Hua, J., Lin, J.
15:10	60-Acoustic Emission-Driven Abrasive Belt Wear Monitoring with Large Language Models - Ding, Y., Liu, Y., Nie, M., Xue, S., He, Y.	47-Field Data Validation of Continuous Magnetic Memory Scanning for Drill Collar Integrity Monitoring - 叶, 盈., Fan, J.	186-Multi-source-free adaptation with calibration for intelligent diagnosis - Zhang, Y., Jiao, J.
15:30	82-Learning When to Measure: Task-Aware Conditional Acquisition for Embedded RUL Prediction - Prevost, G., Cabanillas, E., Boutet, J., Ioana, C.	61-A Hybrid QFA-PSO Co-optimization Framework for Robust Damage Identification of Plate-like Structures - Li, Y.	187-Shaft Voltage Signature Analysis for Gear Fault Diagnosis of Induction Motor Drivetrain under Variable Speed Conditions - Chen, X., Feng, Z., Peng, Z., Chu, F.
15:50	Coffee break		
	SS6: Condition monitoring and structural health monitoring II chair: Radek Martinek	Fault Diagnosis and Prognostics I	Condition monitoring and structural health monitoring
16:20	DISTINGUISHED LECTURE - 148-Active noise control using mpc with uncertainty estimation; a comparison study of deep learning architectures – Rastegar Moghaddam, M. - Shahid Beheshti University, Iran, Liang, C., Karimi, H., Jalaieian-Farimani, M.	63-Nonuniform embedding based feature extraction for bearing fault diagnosis - Ragulskis, M.	179-Data-model-fusion health state monitoring and performance optimization for high-end equipment - Kong, J., Wang, X., Ma, S., Zhen, D.
16:40	DISTINGUISHED LECTURE 110-Detecting multiple faults from waveform signals with a set of specialized features - Juuso, E. - University of Oulu, Finland	67-Damage Detection of Thin Plate Structures Based on Nonlinear Frequency Domain Analysis - Zhang, B., Guo, X., Hu, R., Zhang, W., Cheng, L., Zhu, Y., Peng, Z.	37-PINN-SNN Remaining Useful Life Prediction for High DN Value Rolling Bearings in Liquid Rocket Engine Turbopump - Yu, Z., Wang, H., Dou, W., Mei, W.
17:00	DISTINGUISHED LECTURE - Pellicano F. - Università di Modena e Reggio Emilia, Italy	120-Translating Prognostics into Profitability: A Value Based Framework for Integrating AI Driven Remaining Useful Life Estimates within Remote Energy Infrastructure - Khezam, A., Kidd, M.	189-Detection of Shaft Crack in a Rotor System Using Vibration Signature Analysis - Ganeriwala, S.



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17:20	21-Industry 4.0 Maturity in the Industrial Sector and the Application of Artificial Intelligence – A Global Review - Martins, A., Farinha, J., Mateus, B.	18-Implementing Functional Data Analysis in Digital Twin Applications for Robust Gear Wear Monitoring. - Katz, D., Cohen, R., Kenett, R., Bortman, J.	
17:40	163-PIFMA-PINN: A High-Fidelity Surrogate Modeling Framework for PSM Multi-Component Losses Under Sparse FEA Samples - Yifan Yu , Liyong Wang , Huaqing Wang	32-Bi-directional Gradient-Guided Perturbation Framework for Remaining Useful Life Prediction Under Unseen Operating Conditions - Zheng, L., Qin, Y.	
18:00	172-The Method for Calculating the Time-Varying Meshing Stiffness of a Planetary Gear Transmission System Considering Load Distribution - Pan, J., li, Z., Zhu, R.	164-Rolling bearing fault diagnosis for cross-working condition via multi-classifier discrepancy enhanced by confidence pseudo-label and self-supervised learning - Xingchi Lu , Liuyang Song , Liyong Wang , Huaqing Wang	
18:00	172-The Method for Calculating the Time-Varying Meshing Stiffness of a Planetary Gear Transmission System Considering Load Distribution - Pan, J., li, Z., Zhu, R.	164-Rolling bearing fault diagnosis for cross-working condition via multi-classifier discrepancy enhanced by confidence pseudo-label and self-supervised learning - Lu, X., Song, L., Wang, L., Wang, H.	
18:20	175-A Knowledge-Guided LLM Framework for Bearing Fault Diagnosis - Yang, D., Tan, H., Li, Z., Zhang, H., Gong, T., Karimi, H.	177-Joint Constraint Modeling Method for Blade Resonance and Aliasing Information Based on Single-Sensor -Liu, Y., Wang, W., Wei, A., Zhao, J., Li, Q., Gao, J.	
18:40	End of the session		

Wednesday, 26 August 2026			
	MAGGIORE room	MORANDI room	A room
09:00	PLENARY LECTURE 3		
	Condition monitoring and NDT	Condition monitoring technologies and systems	Acoustic Condition Monitoring I



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09:30	DISTINGUISHED LECTURE 12- A software and hardware system for condition monitoring and lifetime research of stationary process equipment in hazardous production facilities - Syasko, V. - Russian Society for Non-Destructive Testing and Technical Diagnostics	DISTINGUISHED LECTURE 89-The Importance of Multiple Data Sources for Condition Monitoring - A Wind Industry Case Study - Hickey, D. - Natural Power, UK	DISTINGUISHED LECTURE 113- Research and Application of Acoustic Emission Condition Monitoring and Fault Diagnosis Technology for Low-Speed Heavy-Load Rolling Bearings - Shen, G. - China Institute of Special Equipment Testing and Research (CSEI), Zhang, J., Shen, Y., Hu, B.
09:50	81-77 GHz MIMO FMCW Radar for Non-Intrusive Blade Tip Timing: Design and Experimental Validation - Yang, Q., wang, Z., zhang, L.	DISTINGUISHED LECTURE 155- Information quality and its acquisition time: new challenges in technical condition monitoring - Burdzik, R. - Silesian University of Technology, Poland	88-Two-stage NMF with intermediate feature filtering and enhancement for acoustic-based cyclostationary bearing diagnostics - Wodecki, J., Michalak, A.
10:10	95-Physarum-Inspired Optimisation of Electrode Number and Placement for Damage Localisation in GNP-Doped Adhesives Using Electrical Resistance Tomography - Pinello, L., Petriconi, E., Lucii, L., Giglio, M., Sbarufatti, C.	97-Condition monitoring and prediction of failure in woodruff keys in engines and water pumps - Butt, A.	108-The procedure of segmentation of signal from rotating machinery - a case study of acoustic measurement with impulsive background noise - Michalak, A., Zimroz, R., Wytomańska, A.
10:30	127-Torque sensor for gearbox condition monitoring - Darpe, A., Kumar, A.	160-Research on Performance Rating of Elevator Door Systems Based on Multimodal Monitoring Data - Li, G., Li, J., Wang, Y., Zhao, Z., Fang, H., Wanlin, W.	
10:50	Coffee break		
	SS1: Advanced Measurement and Data Processing Technologies for Machine and Structural Health Monitoring - I	Vibration Condition Monitoring	Acoustic Condition Monitoring II
	chair: Dong WANG		
11:10	DISTINGUISHED LECTURE 130-Fault Feature Identification Theory and Separation Method - Wang, D. - Shanghai Jiao Tong University, China	DISTINGUISHED LECTURE 126-Bio-Inspired Complexity in Engineered Metamaterials: Nonlinear Dynamics for Vibration Control and Monitoring - Zippo, A. - University of Modena and Reggio Emilia, Italy	165-Study on Phase Evolution Law and Acoustic Signal Characteristics of Mixed CO2 Gas Leakage in Oil and Gas Wells - Hu, K., fan, J., Chen, Q., Fu, Y., Men, J.



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11:30	DISTINGUISHED LECTURE 141- Fringe pattern-based vision sensing system for the measurement of dynamic parameters - Zhong, J. - Fuzhou University, China	107-System-level fault diagnosis of railway bogies under strong noise via identifiable factorized representation learning - Yin, Q., Wang, T., Xie, J.	69-Experimental Study on Metamaterial-Enhanced Acoustic Tweezers for Precision Actuation in Advanced Condition Monitoring Systems - Zhang, B., Abdulatef, A., Zhou, J., Cheng, L., Zhu, Y., Peng, Z.
11:50	68-A Time-frequency Enhanced Deep Residual Model for Interpretable Machine Health Monitoring - Zhu, Y., Wei, S., Liu, X., Zhang, H., Liu, S.	119-On the impact of rotational speed on roller bearing fault diagnostics - Karioja, K., Laurila, J.	140-Hybrid Acoustic-Based Detection of Active Anomalies in Sour Pipeline Risers for Corrosion Inhibitor Evaluation - Mat Daud, S., Che Kamarudin, M., Abdul Hanan, M.
			AI for Condition Monitoring II
12:10	121-Full-field Vibration and Deformation Measurement of Large Structures via Microwave Sensing - Xiong, Y., Peng, Z., Meng, G.	54-Axle-Box Vibration-Based Monitoring of Knuckle Slack in Centre Buffer Couplers of Freight Wagons - Anand, A., Vyas, N.	DISTINGUISHED LECTURE The Importance of Multiple Data Sources for Condition Monitoring: A Wind - Gupta M. - National University of Singapore (NUS) Magloy Tech, Singapore

12:30	123-A novel vision-based method for coupler force measurement using Multi-scale Feature Aggregation Network and improved iTransformer - Li, L., Chen, S., Xie, R., Li, H.	91-Bridging Internal Dynamics and Diagnostic Signals: A High Fidelity Multibody Framework for Bearing Faults - Schwarcz, O., Talan, A., Shoham, S., Bortman, J.	DISTINGUISHED LECTURE - Balyan V. – Cape Peninsula University of Technology, South Africa
12:50	Lunch		
13:50	PLENARY LECTURE 4		
	SS1: Advanced Non-contact Measurement Technologies and Data Processing Methods for Machine and Structural Health Monitoring - II chair: Yuyong Xiong	Ultrasound for NdT	Signal and Image Processing I
14:20	DISTINGUISHED LECTURE 144- Damage Detection and Hierarchical Localization of Large Rotating Blades - Chu, F. - Tsinghua University, China	53-Metasurface-enabled Lamb Wave Multiple Access Communication - Xu, Y., Huang, W.	DISTINGUISHED LECTURE 111-Fault diagnosis of varying-speed bearings based on non-stationary signal analysis - Lin, T. R. - Qingdao University of Technology, China, Feng, M., Wang, H.



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14:40	145-Physics-guided Data Augmentation for Robust Gearbox Fault Diagnostics with Limited data - Yao, J., He, Q., Peng, Z.	73-Robust Damage Detection in Airbus A380 Composite Flap Track Fairings Enabled by Phase-Frequency Coherence Imaging (PFCI) with Segmented Anisotropy Compensation - Lang, Y., Ruan, Y., Yang, Z., Chen, X.	DISTINGUISHED LECTURE 117-A Novel Effective Smart Camera Based Machine Health Monitoring - Bortman, J. - Ben-Gurion University of the Negev, Israel
15:00	146-Robust optimization of nonlinear energy sinks for supersonic viscoelastic plates under hybrid uncertainties - Huang, F., Wei, S., Hu, D., Chen, L.	76-Time-Frequency Enhanced Dispersion Estimation of Lamb Waves under PZT-Structure Tuning - Ruan, Y., Lang, Y., Yang, Z., Chen, X.	103-Searching for informative frequency band in non-Gaussian data - comparison of results for time-frequency and bi-frequency domains - Hebda-Sobkowicz, J., Michalak, A., Wodecki, J., Zimroz, R.
15:20	127-Torque sensor for gearbox condition monitoring - Darpe, A., Kumar, A.	65-Experimental contribution to a better understanding of the creep/ratcheting effect on the fatigue and fracture mechanism at high temperatures of austenitic 304L stainless steel – Belattar, A., May, A., Bennacer, A.	104-Long-term degradation profile identification based on tensor-based decomposition of cyclic spectral conference and its application to run-to-failure measurements - Michalak, A., Zimroz, R., Wyłomańska, A.
15:40	38-Application and Research of the Ultra-fast Transient Characteristics Test of the Rotor Winding of the Non-salient Pole Synchronous Generator in the Rotor Ventilation Test of Large-scale Generators - Zhang, Q., Zhang, Y.	1-Effect of Deep Cryogenic Treatment on hot corrosion of Nimonic-90 alloy - Pandey, K.	101-Application of Nonnegative Tensor Factorization to RGB video sequence for instantaneous speed estimation of the rotating machine component - Dąbek, P., Michalak, A., Wodecki, J., Zimroz, R.
16:00	Coffee break		
	SS8: Condition Monitoring and Maintenance	SS4: condition monitoring and structural health monitoring	Signal and Image Processing II
	chair: Junyu QI	chair: Roger SERRA	
16:20	DISTINGUISHED LECTURE 48- AeroTwinX™: A Physics-Aware, AI-Enabled Digital Twin Framework for Aero-Engines - Vyas, N. S. - Indian Institute of Technology Kanpur, India	DISTINGUISHED LECTURE - Serra R. - INSA Centre Val de Loire, France	DISTINGUISHED LECTURE 147- Optical and Vision-based Measurement Methodologies and Systems for Condition Monitoring - Zhong, S. - The University of Manchester, UK
16:40	DISTINGUISHED LECTURE 22- A digital twin-driven cross-domain adaptation method for bearing intelligent fault diagnosis - Qiao, Z. - Ningbo University, China	45-Vibration Parameter Identification from Undersampled Single-Sensor Blade Tip-Timing Using Block-OMP - Jia, T., Yue, L.	DISTINGUISHED LECTURE - A Novel Effective Smart Camera Based Machine Health Monitoring - Bezhad M. - Sharif University of Technology, Iran



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17:00	40-Adaptive Distribution-aware Quantization for Efficient Deployment of Large Foundation Models in PHM Systems - Xiang, S., Zhou, C.	20-Evaluating the Frequency-Resolution Trade-Off in FFT-Based Vibration Diagnostics Using Real-World Data from CHP Units and Marine Diesel Engines - Schlieker, F., Schwung, A., da Costa, J., Bergström, M., Ehlers, S.	DISTINGUISHED LECTURE 118 - Gear pitting monitoring via encoder signal analysis and visual inspection - Verwimp, T., Zhu, R., Wen, H., Achilleos, A., Gryllias, K. - KU Leuven, Belgium
17:20	62-Design of an Agentic AI-Driven Multi-Spatiotemporal Digital Twin System for Large Impeller Machining Centers - Liu, S., Liu, L., Duan, C., Liu, J., Hu, Z., Hu, Y.	72-Imaging of Fatigue Cracks Based on Nonlinear Ultrasonic Lamb Wave Phased Array - Xu, H.	143-Tacholeless Order Tracking via Instantaneous Frequency Estimation: A DSP-Based Alternative to Vold-Kalman for Variable-Speed Condition Monitoring - Peña, O., Simón, N., Gutierrez, I.
17:40	79-Acoustic Intelligence-based Roller Chain Monitoring: A Transfer Learning Approach to Address Varying Operational Regimes - Qi, J., Nölcke, J., Chen, Z., Schullerus, G., Proppe, C.	115-Trajectory-Informed evaluation of Distributed Irregularities in Flexible Catenary System - Liu, J., Zhou, N., Collina, A., Bernardini, L.	105-On the Efficiency of Impulsiveness-based Statistical Criteria for Local Damage Detection in Rolling Element Bearings - Kuzio, D., Zimroz, R., Wytomańska, A.
18:00	58-Meta-Augmented Dynamic Graph Learning for Tool Remaining Useful Life Prediction under Single-Sensor Few-Shot Machining Scenarios - Wang, H., Gu, F.	35-Investigation into the Dynamic Properties of a Giant Ferris Wheel using Field Test Data - Qiao, S., zhu, D., liu, S., liu, R.	154-Cyclostationary Time-Series Modeling for Fault Identification of Rail-Transit Bearings - Sun, M., Lin, X., Lin, D., Zhang, Q.
19:30	Conference dinner		

Thursday, 27 August 2026

	MAGGIORE room	MORANDI room	A room
09:00	PLENARY LECTURE 5		
	AI for Condition Monitoring III	Signal Processing and Machine Learning I	SS7: Interpretable AI for industrial fault diagnosis
			chair: Weihua LI
09:30	51-Development and application of intelligent diagnostic technology for sustained annular pressure in HPHT gas wells - Wang, X., Fan, J., Hu, K.	11-Advancements Toward Digital Twins for Gear Transmissions Using Physics-Based Modeling and Data-Driven Learning - Cohen, R., Bortman, J.	DISTINGUISHED LECTURE 169-From Vibration to Motor Current: A Cross-Modal Meta-Learning-Driven Fault Diagnosis Framework for Harmonic Drive of Industrial Robots - Li Weihua
09:50	33-Health Assessment and Trend Prediction Method of Reusable Liquid Rocket Engine Based on Brain-like Intelligence - Wang, H.	17-Physics-Informed Condition Monitoring of Heliostat Drive Units Based on Stress-Response Signature Analysis - Steinberg, D.	46-Average Treatment Effect-Guided LLM-Based Semantic Alignment Network for Zero-Shot Compound Fault Diagnosis - Yang, Z., Xu, J., Ding, X., Li, X., Yan, R.



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10:10	66- An information fusion weighted meta-learning method for few-shot cross-machine transfer diagnosis - Lin, C., Kong, Y., Shi, L., Zhao, K., Zhang, Y., Dong, M.	39- A Diffusion-Based Data Augmentation Framework for Rebar Segmentation - Liu, H., Liu, Y., Zhao, Z., He, B., Zou, Y.	167- Online Monitoring Technology and Application for Complete Chemical Plant Equipment - Hu, B., Zhan, T., Lei, W., Zhu, Y., Shen, Y., Zou, X.
10:30	75- Multi-Input Fusion Denoising Convolutional Network for Early Fault Diagnosis in Gear Transmission Systems - Integrating Convolutional STFT and Cross-Attention into Multi-Sensor Fusion for Weak Feature Extraction - Hongkun, H.	99- Separation of uncorrelated modulation effects in cyclostationary processes using higher-order spectra - Dengler, T.	173- PINN-SNN RUL Prediction for Bearings of LRE Turbopump - Yu, Z., Wang, H., Dou, W., Su, P., Mei, W.
10:50	Coffee break		
11:10	PLENARY LECTURE 6		

	Condition monitoring technologies and systems	Signal Processing and Machine Learning II	SS1: Advanced Non-contact Measurement Technologies and Data Processing Methods for Machine and Structural Health Monitoring - III
			chair: Qingbo He
11:40	77- Multi-Input Fusion Denoising Convolutional Network for Early Fault Diagnosis in Gear Transmission System - A Multi-Sensor Fusion Framework Integrating Convolutional STFT and Cross-Attention for Complex Noise Suppression - Hongkun, H., Zifeng, W., Liming, W., Xiaoxi, D., Huang, W.	100- Impact of transfer function phase shift on frequency domain methods in rolling bearing diagnostics - Dengler, T.	174- CBMDD-Net: An enhanced multiscale defect detection network for car body surface - He Y.
12:00	87- Locally Adaptive Self-Attentive Physics-Informed Neural Networks for Fatigue Crack-Growth Prediction - Liu, P., 季, 梅., Liu, X., Zhong, X., Wang, W.	124- Acoustic Emission Analysis for Predictive Tool Condition Monitoring in Turning - Nadkarni, P., Merzkirch, M., Sause, M.	180- The Method for Calculating the Time-Varying Meshing Stiffness of Planetary Gear Transmission System Considering Load Distribution - Pan, J., li, Z., Zhu, R.



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12:20	98-Unsupervised Detection of Shaft Unbalance Using Neural Network Reconstruction Error - Petriconi, E., Lucii, L., Aravanis, G., Pinello, L., Giglio, M., Sbarufatti, C.	112-Early fault detection in rotating machinery via multivariate autoencoder-based indicator fusion. - Jamil, F.	
12:40	102-Adaptive Order Selection for Instantaneous Frequency Estimation Using Multi-Order Probabilistic Approach - Protopapadakis, G., Peeters, C., Leclere, Q., Antoni, J., Helsen, J.		
13:00	End of the conference		

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