WCCM 2024 SCHEDULE

Oct. 14th		
10:00 – 23:00	Registration	Beijing Continental Grand Hotel, Lobby
		Beijing Beichen Asian Games Village Hotel, Lobby
Oct. 15th		
08:00 – 17:30	Registration	Beijing International Convention Center, Entrance Hall of Gate 1
09:00 – 10:00	Opening Ceremony	Convention Hall No.2
10:00 – 11:30	Technique presentations	Convention Hall No.2
13:30 – 17:30	Technique presentations	Convention Hall No.5(Room A, B-1, B-2, C-1,C-2, D-1, D-2)
17:40 – 19:30	Welcome Reception	Convention Hall No.4
Oct.16th		
08:00 – 17:30	Registration	Beijing International Convention Center, Entrance Hall of Gate 1
09:00 – 12:20	Technique presentations	Convention Hall No.5(Room A, B-1, B-2, C-1,C-2, D-1)
13:30 – 17:30	Technique presentations	Convention Hall No.5(Room A, B-1, B-2, C-1,C-2, D-1)
19:00 – 22:00	Gala Dinner	Grand Ballroom Second floor,Beijing Continental Grand Hotel
Oct.17th		
08:00 – 17:30	Registration	Beijing International Convention Center, Entrance Hall of Gate 1
09:00 – 12:20	Technique presentations	Convention Hall No.5(Room A, B-1, B-2, C-1,C-2, D-1)
13:30 – 17:50	Technique presentations	Convention Hall No.5(Room A, B-1, B-2, C-1,C-2, D-1)
Oct.18th		
09:00 – 12:00	Technique presentations	Convention Hall No.5(Room A, B-1, B-2, C-1,C-2)
12:00 – 12:10	Closing Ceremony	Convention Hall No.5(Room A)

EXHIBITION

The exhibition will be held in Convention Hall No.4 at the same time as the conference

COFFEE & LUNCH

All scheduled Coffee and Lunch will be held in Convention Hall No.4

NEME BADGES

All attendees must wear their name badges at all times to gain admission to all sessions, exhibition areas, coffee, lunch and receptions

WIRELESS INTERNET SERVICE

Wireless internet will be freely available in the conference and exhibition area. No password is needed. Please limit your usage to be considerate of other attendees and do logout once you are finished

MOBILE PHONES

As a courtesy to our speakers and other attendees, please turn off your phone or set it to silent mode

ORAL TECHNICAL PROGRAMME

Day 1   15th October 2024   Tuesday

TIME	PROGRAMME
	Convention Hall No.2 **Chair: Gongtian Shen**
09:00-10:00	**Opening Ceremony**
10:00-10:30	**Coffee (Convention Hall No.4)**
	Convention Hall No.2 **Chair: Len Gelman**
10:30-11:00	**Keynote Presentation(1)** Operation Condition Monitoring of Wind Turbine Blades Prof. Fulei Chu
	Convention Hall No.2 **Chair: Gongtian Shen**
11:00-11:30	**Keynote Presentation(2)** Risk Management of Piping System Based on Wall Thinning Monitoring and Prediction Prof. Tetsuya Uchimoto
11:30-12:30	**Exhibition (Convention Hall No.4)**
12:30-13:30	**Lunch (Convention Hall No.4)**
	Convention Hall No.5(Room A) **Chair: Len Gelman**
13:30-14:00	**Keynote Presentation(3)** Machine Learning for Practical Prognosis and Health Management Prof. Mingjian Zuo
	Convention Hall No.5(Room A) **Chair: Gongtian Shen**
14:00-14:30	**Keynote Presentation(4)** Progress of Ultrasonic Non-destructive Testing Instruments Prof. Zicheng Wang

	Room A	Room B-1	Room B-2	Room C-1	Room C-2	Room D-1	Room D-2
	Session P1-1,4 Session Chair: Qingbo He	**Session P1-5** Session Chair: Esko Juuso Zhaoye Qin	**Session P2-2,8** Session Chair: Dong Wang	**Session P2-4** Session Chair: Longbiao He	**Session P5-5, P2-16** Session Chair: Yanhua Sun	**Session P3-5,P2-16** Session Chair: Jingjing He Ruqiang Yan	**Session P3-1** Session Chair: Jiyuan Zhao Xiyue Zou
14:30-14:50	**1-1-419** Near-field Passive Wireless Strain Sensor for Structure Health Monitoring of Mega Structures	**Distinguished Lecture** Intelligent indicators for integrating condition monitoring and control Prof. E.K. Juuso	**Distinguished Lecture** Qualification and Certification of Condition Monitoring Mr. John Kinsey	**2-4-082** Ultrasonic Monitoring Method for Oil Film Thickness in the Contact Zone of Roller Bearings	**5-5-249** Structural deformation monitoring based on flexible sensing and data fusion	**Distinguished Lecture** How Condition Monitoring is More than Testing Critical Assets Prof. Stuart Norman	**Distinguished Lecture** Novel fault diagnosis technology via motor current signature analysis Prof. Len Gelman
14:50-15:10	**1-4-350** Study on the Mechanism of Errors Induced by Speed Fluctuations in Blade Tip Timing Signals	**1-5-287** Intelligent indicators for integrating condition monitoring and control	**2-2-417** Study on the laser vibration technology under noise condition	**2-4-178** Damage acterization of carbon fiber composites based on modal acoustic emission	**5-5-352** Bridge Condition Monitoring Based on Vehicle Induced Vibration Response	**3-5-064** Passive aircrafticing detection during flight using ambient noise	**3-1-079** Advanced Diagnostic Frameworks Leveraging Graph Neural Networks for Mechanical System Maintenance
14:30-14:50	**1-4-562** Assessment of Lift-off Distance and Thickness of Metallic Plate Using Pulsed Eddy Current Testing with Scikit-learn	**1-5-341** Multi-scale Convolutional Neural Network Gas Turbine Rotor System Fault Diagnosis	**2-8-521** Coda wave based self-sensing smart aggregate and its potentional application	**2-4-182** Condition Monitoring and Non-Destructive Testing of Titanium Alloy Behavior under Cyclic Loading and Bending	**2-16-214** Ultrasonic imaging of high-density polyethylene using spatio-temporal singular value decompositions	**2-16-517** Development of a technique for mechanized ultrasonic inspection of welded joints of main pipelines using phased array and time-of-flight diffraction methods with the use of the usd-60fr-16/128 flaw detector	**3-1-091** A Dilated Residual Network for Turbine Blade ICT Image Artifact Removal

TIME	PROGRAMME						
15:30-15:50	**Coffee (Convention Hall No.4)**						
	Room A	**Room B-1**	**Room B-2**	**Room C-1**	**Room C-2**	**Room D-1**	**Room D-2**
	Session P1-2, P1-3 Session Chair: Ying Zhang	**Session P1-3,5** Session Chair: Esko Juuso Zhaoye Qin	**Session P2-6,8** Session Chair: Dong Wang	**Session P2-4, P5-3** Session Chair: Longbiao He	**Session P2-9** Session Chair: Zhichao Li	**Session P3-5, P5-14** Session Chair: Jingjing He Ruqiang Yan	**Session P3-1, P5-14** Session Chair: Jiyuan Zhao Xiyue Zou
15:50-16:10	**1-2-167** Research on the Extraction and Diagnosis Methods of Strongly Nonstationary Fault Features for Complex Equipment	**1-5-368** Improving classification of imbalanced classes in industrial data: Enhancing defect detection for type IV high-pressure hydrogen vessels	**2-8-527** Research on Monitoring Method of Q345R High Temperature Molten Salt Corrosion Process Based on Acoustic Emission	**2-4-252** Research on acoustic energy attenuation positioning method for gas leakage in pressure pipeline	**2-9-197** Research on curing monitoring method of the resin in steel epoxy sleeves based on circumferential SH guided waves	**3-5-092** Lamb wave reconstruction using transmissibility concept in frequency domain	**3-1-101** Molten pool behavior and effect of fluid flow on surface quality in electron beam ive melting of IN738 superalloy
16:10-16:30	**1-2-314** Bearing faults diagnosis under time-varying rotation speed condition based on dual-tree complex wavelet transforms and order tracking	**1-3-385** Multichannel phase synchronization fusion variational mode decomposition for mechanical fault diagnosis	**2-8-535** Clarification of Fracture Behaviour of RC Pillar with 3D Concrete Printing Buried Formwork Based on Elastic Wave Technique	**2-4-257** Progress of calibration and verification standards for acoustic emission sensors	**2-9-199** Design of Guided Wave Magnetostrictive Patch Transducer with Vertical Static Bias Magnetic Field for Pipe Inspection	**3-5-151** Optimized piezoelectric transducers array for Lamb waves in arbitrary cross-section structures	**3-1-107** A Deeply Supervised Dual-Scale Network for Accurate ICT Image Super-Resolution
16:30-16:50	**1-2-454** Joint Application of Principal Component Analysis and Wavelet Transform for 1D Convolutional Neural Network Signal Classifica-tion	**1-3-439** Demagnetization Fault Diagnosis of PMSLM Based on Relative Position Matrix Transfor-mation and EfficientNetV2 Classification	**2-8-536** Estimation of Tendon Rupture Locations Inside PC Box Girders Using AE Source Location	**2-4-538** Ultrasonic measurement of contact loads between rollers and raceways in wind turbine main shaft bearings	**2-9-201** Optimal design of transducers based on the Halbach arrays permanent magnet structure	**3-5-481** Fatigue Crack Monitoring of Wire and Arc Manufactured material Based on Acoustic Emission Technology	**5-18-459** Experimental study on performance indicators of passenger car drivers based on collision monitoring
16:50-17:10	**1-3-452** Experimental Verification of a new Hyperparam-eter optimization of Improved Sparse Low-Rank Model for Bearing Fault Signal Reconstruction	**1-3-445** Multi-objective Optimization Guided Sparse Representation for Extracting Non-periodic Fault Features of Variable-speed Rolling Bearings	**2-6-563** Tx-Rx eddy current probe desginfor axially oriented cracks detection and recognition in pipelines	**5-3-354** High-Strength Bolt Axial Force Gauge Based on EMAT	**2-9-574** Multifrequency Torsional Waves-Based Pipelines Condition Monitoring System	**5-14-447** A Distributed Vision Measurement Method for Large Compo-nents in Ports	**5-14-448** A Real-Time Compensation Method for Principal Distance Errors in Port Based Vision Measurement Systems

TIME	PROGRAMME					
	Convention Hall No.5(Room A)				**Chair: Len Gelman**	
09:00-09:30	**Keynote Presentation(5)** Applications and challenges of AI technology in wind turbine condition monitoring Prof. Andrew Ball					
09:30-10:00	**Keynote Presentation(6)** Physically interpretable fault feature learning: New perspective for realizing simultaneous machine condition monitoring, fault diagnosis and degradation assessment Prof. Dong Wang					
10:00-10:20	**Coffee (Convention Hall No.4)**					
	Room A	**Room B-1**	**Room B-2**	**Room C-1**	**Room C-2**	**Room D-1**
	Session P2-5,7,16 Session Chair: Junyan Liu	**Session P2-11** Session Chair: Tonghai Wu	**Session P4-9,P5-12** Session Chair: Weimin Wang	**Session P5-20** Session Chair: Yue Yu	**Session P5-22** Session Chair: Jun Zhang	**Session P3-1** Session Chair: Jiyuan Zhao Yuan Liu
10:20-10:40	**Distinguished Lecture** Structural multi-dimensional dynamic parameters monitoring based on displacement-sensitive fringe pattern Prof. Jianfeng Zhong	**2-11-075** Research on image enhancement method for online oil monitoring system	**4-9-035** Layout optimization and parameter identification for blade tip timing-based condition monitoring: A statistical perspective	**5-20-038** Study on the Risk Zone of Hydrogen Leak Diffusion in High-Pressure Hydrogen Transmission Pipeline Station Fields	**5-22-033** Intelligent Detection of Multi-phase Flow Based on Electrical Impedance Tomography (EIT)	**Distinguished Lecture** Advances in Condition Monitoring for Long Composite Wind Turbine Blades Prof. Wenxian Yang
10:40-11:00	**2-7-411** A novel feature extraction and enhancement technique for infrared thermal wave imaging based on multi-time pixel local outliner factor	**2-11-077** Mechanism-driven Model for Adaptive Wear State Diagnosis via Moving Particle Monitoring	**5-1-284** A Fault Diagnosis Method for Data Imbalance Situations Using Improved Diffusion Models with Time Series Networks	**5-20-046** Dynamics simulation study for blending hydrogen into natural gas networks	**5-22-037** Study of Impedance Correction and Parameters Separation for Precision Oxide Film Thickness Measurement	**3-1-183** Ultrasonic guided wave sparse delay-and-sum high-resolution damage imaging Method
11:00-11:20	**2-5-208** Optical detection method based on polarized structured light system	**2-11-302** Tribo-informatics approach for condition monitoring of tribological system	**5-2-236** Design of urban rail transit track detection probe	**5-20-223** Research on the Noise Signal Characteristics of Hydrogen Leaks	**5-22-050** Oxide Film Thickness Measurement of Cr Coating Fuel Rod Cladding Using a Swept-Frequency ECT Method	**3-1-216** Analysis of gas-solid two-phase basic pipeline flow field based on Eulerian-Eulerian models
11:20-11:40	**2-7-319** Outdoor lock-in carrierographic of photovoltaic modules under sunlight and cold conditions	**2-11-172** Recent progress and development trends of online oil wear debris particle detection sensors	**5-2-206** Research on the Impact of Track Irregularity Wavelength on the Dynamic Characteristics of High-Speed Maglev Trains	**5-20-258** Rapid monitoring and risk assessment of hydrogen leakage in semi enclosed spaces	**5-22-054** Wall thinning quantification with a lift-off distance for metallic structures using pulsed ECT equipped with efficient signal processing	**3-1-230** Design of Array Eddy Current Scanning System for Aluminum Liner of Hydrogen Cylinde
11:40-12:00	**2-16-519** Intelligent Recognition of Internal Defects in Composite Materials Based on Dual-Modality Ultrasonic Imaging	**2-11-192** Gearbox fault prediction method based on multi-parameter combining and experience-driven	**5-2-309** Aerodynamic Noise Characteristics and Noise Reduction Strategy for High-Speed Trains Operating in Low-Vacuum Tube	**5-20-259** Typical hydrogen laboratory condition monitoring and safety risk control strategy	**5-22-104** High temperature resistant ultrasonic sensors for temperature and stress monitoring of nuclear power equipment	**3-1-318** Research on Intelligent Operation and Maintenance System for High Speed Maglev
12:00-12:20		**2-11-616** Listen the voice of Oil				
12:30-13:30	**Lunch (Convention Hall No.4)**					

TIME	PROGRAMME					
	Convention Hall No.5(Room A)				**Chair: Gongtian Shen**	
13:30-14:00	**Keynote Presentation(7)** Recent Progression of Eddy Current Non-destructive Testing and Monitoring Prof. Guiyun Tian					
	Convention Hall No.5(Room A)				**Chair: Len Gelman**	
14:00-14:30	**Keynote Presentation(8)** Research and Application of Condition Monitoring and Health Evaluation Technology for Large-scale Amusement Rides Prof. Gongtian Shen					
	Room A	**Room B-1**	**Room B-2**	**Room C-1**	**Room C-2**	**Room D-1**
	Session P2-6 Session Chair: Zhenmao Chen Shejuan Xie	**Session P2-11, P5-14,17** Session Chair: Tonghai Wu	**Session P5-15** Session Chair: Xi Shi	**Session P5-6,P6-8** Session Chair: Longjun Dong	**Session P5-3,12** Session Chair: Zhiyuan Liang	**Session P3-1** Session Chair: Jiyuan Zhao Bin Hu
14:30-14:50	**2-6-034** Implementation of rope monitoring and conveyor belt monitoring systems at critical industrial facilities	**2-11-235** Principle and application of digital sensor for oil detection	**5-15-147** Knowledge-informed domain generalization method for fault diagnosis of bearings in escalators	**5-6-388** Critical slowing down characteristics of seismic landslides and rockfalls	**5-12-008** Two-dimensional Array TMR Sensors for the Measurement of the Oxide Film Thickness on Nuclear Fuel Cladding	**3-1-343** Research on modulation mechanism of planetary gear set considering time-varying transmission paths under sun gear fault.
14:50-15:10	**2-6-102** Macro–micro model of 3D magnetic Barkhausen noise signals: macroscopic nonlinear magnetization and microscopic MBN jumping	**5-14-426** An Improved YOLOv5s Model for Railway Container Flatcar Loading and Unloading Status Detection	**5-15-166** Intelligent Maintenance Technology for Escalators	**6-8-570** Metrological support and standardization of advanced NDT, CM and TD tools based on the use of internet technologies	**5-12-090** Understanding the corrosion behaviour of P92 heat-resistant steel in CO2 using in-situ monitoring technology	**3-1-351** Tool fault diagnosis based on improved DenseNet-VIT joint network and transfer learning
15:10-15:30	**2-6-139** A Self-enhancement Cycle Thermography Generative Adversarial Network for Complex Defect Profile Reconstruction	**5-17-221** Stress Monitoring and Early Damage Prediction for Large Roller Coasters	**5-15-377** Research on condition monitoring and fault diagnosis of escalator under complex working conditions		**5-3-360** In-service Ultrasonic Inspection System for Wind Turbine Main Shaft	**3-1-472** Damage identification on heat prevention coating of insulate tiles
15:30-15:50	**Coffee (Convention Hall No.4)**					

TIME	PROGRAMME					
	Room A	**Room B-1**	**Room B-2**	**Room C-1**	**Room C-2**	**Room D-1**
	Session P2-6 Session Chair: Zhenmao Chen Shejuan Xie	**Session P3-6, P5-11** Session Chair: Xuefei Guan Zhijun Yang	**Session P2-15，P4-7** Session Chair: Yihua Kang Jianbo Wu	**Session P5-7** Session Chair: Jianchun Fan	**Session P5-22** Session Chair: Jun Zhang	**Session P2-12,13,14** Session Chair: Chunguang Xu Yang Zheng
15:50-16:10	**2-6-173** Imaging and non-destructive evaluation of multi-layer GFRP based on microwave	**3-6-081** Lagunas' beamforming with spiked covariance estimation for acoustic array imaging: refining an old idea by Lagunas in 1986	**2-15-580** Eddy Current Thermography Detection Method for Thickness Reduction Defects of Ferromagnetic Components Based on Magnetic Permeability Perturbation	**5-7-253** Dynamic monitoring and diagnosis strategy of well control device based on digital twin	**5-22-106** Measuring the liquid level inside metal pipes using A0 guided waves	**2-12-005** Monitoring of the stress state of critical fasteners of hydraulic turbine units based on the metal magnetic memory technique
16:10-16:30	**2-6-315** A Simulation Method for Natural Magnetization of Austenitic Stainless Steel Based on Ising Model	**3-6-089** Correlation between phased array ultrasonic backscattering coefficient and grain size in polycrystal	**2-15-003** Condition Monitoring of Mash Seam Welds for Thin Steel Sheets in a Continuous Galvanizing Line	**5-7-277** Research on the Detection Law of Leakage Sound Wave in Oil and Gas Wells Mixed with CO2 Gas	**5-22-109** Inductance-to-Digital Converters (LDC) based multi-parameter eddy current testing	**2-12-303** Stress characterization based on the Villari Reversal
16:30-16:50	**2-6-323** Possibility of using direct current potential (DCPD) for stress corrosion cracking (IGSCC) life assessment	**3-6-142** Embedded flaw quantification and imaging in curved components using phased-array ultrasound SAFT	**2-15-011** Rail Near-surface Defect Inspection of Large Lift-off Eddy Current Thermography	**5-7-288** Analysis of stress magnetic memory detection signals of tubing materials under different loading modes	**5-22-111** Regionally coordinated guided wave damage monitoring for large-scale structures	**2-13-013** Strucural Monitoring of Prestressed Concrete Containment of Nuclear Power Plants Based on the Multi-dimensional Optical Fiber
16:50-17:10	**2-6-543** A method for thermal aging temperature characterization of 12CrMoV steel using multi parameter fusion of electromagnetic sensors	**3-6-462** A Viterbi-based ray tracing technique for ultrasonic linear array imaging of L-shaped CFRP structures	**2-15-055** Research on early corrosion evaluation of carbon steel based on multiple feature acterization methods	**5-7-293** Research on the tightness testing of flange bolt joint structure based on magnetic-ultrasonic testing system	**5-22-137** Liquid temperature monitoring of spent fuel pool based on ultrasonic transit time measurement	**2-14-010** Challenges In Detecting Welding Anomalies Under Insulation: A Case Study Using Metal Magnetic Memory Technique
17:10-17:30		**5-11-218** Progress in Inspection Technology for Atmospheric Pressure Vertical Storage Tanks	**4-7-057** Visualization and quantification of broken wires in steel wire ropes based on induction thermography	**5-9-322** Research on gas kick monitoring technique of deep-water drilling riser based on Doppler effect	**5-22-461** Design of eddy current array probe for stress corrosion cracking detection	

TIME	PROGRAMME					
	Convention Hall No.5(Room A)				**Chair: Gongtian Shen**	
09:00-09:30	**Keynote Presentation(9)** Novel electromagnetic inspection technology supporting onshore and offshore pipe-/pipeline condition monitoring Prof. Andreas Boenisch					
	Convention Hall No.5(Room A)				**Chair: Len Gelman**	
09:30-10:00	**Keynote Presentation(10)** Terahertz Nondestructive Testing and Quantitative Evaluation Prof. Shuncong Zhong					
10:00-10:20	**Coffee (Convention Hall No.4)**					
	Room A	**Room B-1**	**Room B-2**	**Room C-1**	**Room C-2**	**Room D-1**
	Session P5-19 Session Chair: Hongpeng Zhang	**Session P3-8** Session Chair: Haichao An	**Session P4-4,6,P5-21** Session Chair: Yonghao Miao	**Session P3-3** Session Chair: Guide Deng	**Session P3-7** Session Chair: Zhinong Li Hongkai Jiang	**Session P5-21,23** Session Chair: Ziguang Jia
10:20-10:40	**Distinguished Lecture** Structural multi-dimensional dynamic parameters monitoring based on displacement-sensitive fringe pattern Prof. Jianfeng Zhong	**3-8-525** Predictive maintenance standardization leading the high-quality development	**4-4-355** Improved Minimum Entropy Deconvolution based on Dual-domain Separation Technique for Bearing Fault Feature Extraction	**3-3-060** Sensorless based anomaly detection and degradation assessment of of roller chain systems	**3-7-600** Research on fault diagnosis method of Aero-engine based on second-order multi-synchroextractingtransform	**5-21-492** Analysis of Ice-Induced Vibrations on Marine Platforms in Liaodong Bay, Bohai Sea Based on Field Monitoring
10:40-11:00	**5-19-065** An overview of the effectiveness of digital data for monitoring the life cycle of marine engines	**3-8-093** Lubrication monitoring and assessment for wind turbine	**4-4-542** Federation Aggregation Strategy Learning Method for Inter-client Data Imbalance	**3-3-067** Investigation on Hydrogen Dissolution Monitoring and Steam Oxidation Laws of Boiler Tube Inner Wall during Deep Peaking of Coal-fired Power Units	**3-7-601** Research on Fault Diagnosis Methods of Aero-engine Spindle Bearings	**5-21-513** Ice load identification of an upright jacket offshore platform based on the state space method
11:00-11:20	**5-19-169** Fault diagnosis of wind turbine gearboxes under changing operating conditions	**3-8-531** Challenges and Insights in Implementing High-End Equipment Condition Monitoring and Fault Diagnosis	**4-6-280** System Software for Prognostics and Health Management of Large Rotating Machinery and Its Application	**3-3-219** Experimental study on the influence of galvanized iron sheet protective layer on pulsed eddy current testing	**3-7-602** On the detection of casing bolt loosening based on multiple wave mode conversion	**5-21-514** Ice-Induced Vibration Risk Early Warning Analysis for Ice-Resistant Structures in the Bohai Sea Based on Internet of Things Technology
11:20-11:40	**5-19-412** Federated Diverse Knowledge Learning for Machinery Fault Diagnosis with Data Heterogeneity	**3-8-565** The application advantages of NB IoT sensor technology in coal washing equipment	**4-6-285** Research on axial compressor fault early warning and diagnosis based on performance parameters and vibration monitoring	**3-3-255** Prediction of ultimate bearing capacity of vulcanized tank with incomplete penetration defects	**3-7-603** In-Situ Mini-Invasive Maintenance Continuum Robots for Aero-Engines	**5-23-176** Condition Monitoring in the field of extraction and processing machines
11:40-12:00	**5-19-567** Wear condition monitoring technology for ships and Marine engineering equipment	**3-8-577** Magnetic bearings and condition monitoring: a perfect combination to ensure machine reliability	**5-21-493** Measurement and Analysis of Ice Loads on Jacket Platforms Based on Fibre Optic Strain Sensor	**3-3-289** Safety Evaluation of Type IV High Pressure Hydrogen Cylinders	**3-7-604** Bistable Insect-Scale Jumpers with Multimodal Locomotion for Damage Detecting of Aero-engine	
12:00-12:20	**5-19-572** Complex Domain Signal Detection for Metal Particles in Lubrication Systems Using a Double Lock-in Amplifier Circuit	**3-8-583** Exploration and practice of intelligent operation and maintenance of equipment in iron and steel industry			**3-7-605** Aircraft health condition deep sending and intelligent prognosis	
12:30-13:30	**Lunch (Convention Hall No.4)**					

TIME	PROGRAMME
	Convention Hall No.5(Room A) **Chair: Gongtian Shen**
13:30-14:00	**Keynote Presentation(11)** Metrological support and standardization of advanced NDT, CM and TD tools based on the use of internet technologies Prof. Vladimir A. Syasko
14:00-14:30	**Keynote Presentation(12)** Enhancing Infrastructure Resilience with Advanced NDT Solutions Prof. Tomoki Shiotani

TIME	Room A	Room B-1	Room B-2	Room C-1	Room C-2	Room D-1
	Session P3-4 Session Chair: Xiang Li	**Session P3-8** Session Chair: Haichao An	**Session P5-17** Session Chair: Jindrich Liska	**Session P3-3** Session Chair: Guide Deng	**Session P3-7** Session Chair: Zhinong Li Hongkai Jiang	**Session P5-13** Session Chair: Shaohua Dong Zuopeng Lv
14:30-14:50	**3-4-007** RUL prediction for rolling bearings using improved LSTM and a degradation detection strategy	**3-8-490** Toward battery-free predictive maintenance	**5-17-237** Intelligent Monitoring System for Ensuring Efficient Lubrication of Roller Coaster Lifting Chains	**3-3-310** Anylysis of effective vision for counterbalanced trucks with mast based on the quick image recognition methods	**3-7-606** Cyclostationary Modulation Signal Bispectrum based Fault Diagnosis of Rotating Machines	**5-13-389** LiftDictNet: A Denoising Unrolling Network Based on Lifting Wavelet Dictionary for Interpretable Intelligent Fault Diagnosis
14:50-15:10	**3-4-194** Intelligent Health Indicator Construction Method for Aircraft Structures based on Acoustic Emission	**3-8-581** From observations to corrective actions: insights into wind Turbine Gearboxes failure using condition monitoring solution	**5-17-304** Research on Typical Fault Diagnosis for Transmission System of Amusement Rides Based on Vibration Monitoring	**3-3-321** Elastic-plastic collapse of short length tube under lateral crushing between two rigid plates considering initial ovality	**3-7-607** Research on dynamic behaviors of a turbo-shaft engine rotor system	**5-13-398** Digital Twin-Based Automatic Detection and Fault-Tolerant Control for Aeroengine Thrust Control Malfunction
15:10-15:30	**3-4-270** A prediction model for wear-crack coupling degradation process in a gear transmission system based on dynamic analysis	**3-8-526** Intelligent monitoring and analysis of petrochemical dynamic equipment	**5-17-317** Research on deformation detection of amusement rides component based on coherent lasers	**3-3-324** Analysis of fatigue crack propagation in high-pressure thick walled hydrogen storage pressure vessels	**3-7-608** The flexible tensor singular value decomposition and its applications in multisensor signal fusion processing	**5-13-406** A Study on the Evolution of Pre-set Fault States and Comparative Testing Methods for Aviation Spindle Bearings
15:30-15:50					**3-7-609** A novel adaptive framework for the health status assessment and risk warning of aero-engines based on flight parameters	
15:30-15:50	**Coffee (Convention Hall No.4)**					

TIME	PROGRAMME					
	Room A	**Room B-1**	**Room B-2**	**Room C-1**	**Room C-2**	**Room D-1**
	Session P3-2,4, P2-16, P6-2 Session Chair: Xiang Li	Session P4-1,3 Session Chair: Zenghua Liu Zhengyang Yin	Session P5-2,17 Session Chair: Jindrich Liska	Session P3-3 Session Chair: Guide Deng	Session P3-7 Session Chair: Zhinong Li Hongkai Jiang	Session P5-10,13 Session Chair: Shaohua Dong Zuopeng Lv
15:50-16:10	**3-4-286** Life Assessment Based on API579-1/ASME FFS-1 Fitness-For-Service for Cr-Mo Ferritic Steel	**4-1-566** Application of elastic guided waves and time reversal technique for damage characterization in plate-like structures with a piezoelectric sensor network	**4-8-006** Monitoring of rotating blades using shaft vibration measurement and tracking in a frequency domain	**3-3-260** Analysis and Life Evaluation of Overdue Service Coke Towers	**3-7-610** Fault Diagnosis Method for Rolling Bearings Based on MTF-PS ResNet	**5-13-434** An Informer-based Multi-step Prediction Method for Aero-Engine Condition Monitor-ing
16:10-16:30	**3-2-381** Sudden rise of radial vibration levels in steam turbine of propylene compres-sor	**4-3-063** Gear pitting diagnostics under various operating conditions by exploiting torque signals	**4-8-014** Anomaly detection in the task of remote monitoring of large rotary machines based on the signal-based digital twin	**3-3-325** Limit analysis of pressure-bearing components and constitutive relationship model of metal materials	**3-7-611** Dry Friction Vibration Reduction Technologies for Aero Engine Blades and Its Simulation Method	**5-10-186** Corrosion Resistant Silicone Coating with Intrinsic Self-healing Property
16:30-16:50	**2-16-539** Development of CFRTP Ground Anchor Bearing Plate with Fiber Optic Sensors	**4-3-074** Interpretable wavelet kernel network with attention mechanism	**4-8-015** Condition monitor-ing of axial fan blades	**3-3-449** The simulation research on ultra-high-pressure water jet for the outer wall of spherical tanks using a welding grinding robot.	**3-7-612** Nonlinear vibration analysis and flow field prediction of aero-engine blades	**5-10-244** Improved edge detection technology for pipeline weld images based on multi-operator fusion
16:50-17:10	**2-16-561** Preliminary Exploration of Magnetic Flux Leakage Testing Method for Defects in Thick-Walled Steel Plates	**4-3-098** Research on planetary gear signal model based on acteristic signal enhancement and nonlinear least square parameter optimization	**4-8-016** Evaluation of true frequencies of the blade vibrations from blade tip timing measurement		**3-7-613** Low-quality Fault Signal Enhancement and Diagnosis based on Sparse Strategy	**5-10-262** Design and Application of Intelligent Ultrasonic Monitoring System for Oil and Gas Station Pipelines
17:10-17:30	**6-2-382** Study on damage monitoring of carbon fiber composites based on piezoelec-tric impedance technology	**4-3-267** Numerical bifurcation analysis of gear transmission in non-stationary regimes under angular formalism	**4-8-019** An Overview of Rotary Machine Failures and the Application of Classification Techniques in Remote Monitoring of Large Rotary		**3-7-614** Discriminative Sparse Representation Theory for Intelligent Fault Diagnosis	**5-10-265** Design of phase difference hydrogen probe based on COMSOL simulation
17:30-17:50		**4-3-291** The diagnostic effect of Localized-CECP algorithm on different rotary components			**3-7-615** Lightweight Intelligent Recognition Method for Acoustic Imaging Features of Scaling Aero-engine Test Rig	

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	Convention Hall No.5(Room A)			**Chair: Len Gelman**	
09:00-09:30	**Keynote Presentation(13)** Complexity and imperfections, related to condition monitoring of mechanical and biological systems Prof. Antonio Zippo				
09:30-10:00	**Keynote Presentation(14)** Learning Based Soft Sensing and Prediction for Industrial Applications Prof. Hamid Reza Karimi				
10:00-10:20	**Coffee (Convention Hall No.4)**				
	Room A	**Room B-1**	**Room B-2**	**Room C-1**	**Room C-2**
	Session P5-14,18 Session Chair: Zhangyan Zhao Yuan Liu	**Session P5-16** Session Chair: Zhanwen Wu Kari Suihkonen	**Session P5-17** Session Chair: Weike Song	**Session P6-1,4** Session Chair: Bin Hu	**Session P6-2,3,5,6** Session Chair: Yilin Mo
10:20-10:40	**5-14-433** Study on preventing rail gnawing of rail-mounted gantry crane based on rigid-flexible coupling dynamic simulation	**5-16-432** Case study of elevator speed limiter failure and a self-monitoring elevator speed limiter	**5-17-228** Key Technologies and Application of State Monitoring and Fault Diagnosis for High-parameter Large Amusement Facilities	**6-1-342** Research on on-line condition monitoring and safety data analysis technology of hydrogen energy equipment	**6-2-261** Plug-and-Play Distributed Driving State Estimation for Open Vehicle Platoons
10:40-11:00	**5-14-460** A Batch Detection Method for Bolt Loosening Angles Based on Machine Vision	**5-16-467** Bearing Fault Diagnosis in Elevator Systems with Variable Operating Conditions based on Attention-guided Multi-Sensor Information-coupled Meta Learning Network	**5-17-263** Steel cable stress monitoring for Ferris wheel based on elasto-magnetic method	**6-1-400** Coal Gasification Syngas Pipeline Leak and Damage Prevention Based on Distributed Optical Fiber Temperature Sensing	**6-2-268** Neural Hysteresis Friction Modeling for Industrial Robot Dynamics Identification
11:00-11:20	**5-14-465** Real-Time Video Transmission Delay Measurement for Port Crane Surveillance Systems	**5-16-474** Elevator status monitoring and health evaluation system	**5-17-278** Research on Testing Method and System Development for Running Speed of Large Roller Coaster	**6-1-409** Application of cloud-based motor equipment monitoring system for motors based on Internet of Things and deep residual contraction network	**6-3-427** Application of Digital Twin Technology in Asset Management: A Comprehensive Literature Review
11:20-11:40	**5-18-086** Fault diagnosis and critical component life prediction of passenger ropeway	**5-16-523** Research on the Method of Constructing Peer Evaluation Index System for Special Equipment Inspection and Testing Agencies	**5-17-299** A screening method for point cloud clustering to identify the intrusion of roller coaster passenger envelopes	**6-4-327** Research on Robot Detection Technology for Safety Status of Lightning Rods in Substations	**6-5-404** A novel adaptive wavelet feature fusion network for rotating machinery fault diagnosis
11:40-12:00	**5-14-617** Application of Ultrasonic Characterization Technology in Lithium Battery Safety	**5-16-528** Design of Environmental Monitoring System for Machine Room of Lifts for Explosive Atmospheres	**5-17-301** Safety analysis of typical high-altitude flying amusement rides overspeed protection devices		**6-6-441** Intelligent identification of bolt joint loosening based on nonlinear guided wave
12:10-12:30	**Closing Ceremony Convention Hall No.5(Room A)**				
12:30-13:30	**Lunch (Convention Hall No.4)**				

POSTER

TECHNICAL

PROGRAMME

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No.02	1-2-370	Frequency Sweep Rate -Based Signal Decomposition	Aoran Wang, Gang Yu, Wenkai Wang
No.03	1-2-520	Research on the Application of Nondestructive Testing Technology in Offshore Pipeline Systems	Jialin Cui, Xianqiang Qu, Jinbo Du
No.04	1-2-522	Bolt stress detection algorithm based on Bayesian compressive sensing	Shizhen Zhang, Weijia Shi and Jinyi Zhang
No.05	1-4-058	An emissivity-correctable global detection method for infrared thermography	Yanlin Liu, Hui Xia, Jianbo Wu
No.06	1-4-247	Combined positioning of magnetic levitation trains based on an improved interaction model	Zhixin Li, Jie Yang, Shuai Yang
No.07	1-5-200	Zhixin Li, Jie Yang, Shuai Yang	Fei Wu, Yanhua Sun
No.08	1-5-361	The Study of Acoustic Emission Technology in Suspected Leakage Monitoring of Atmospheric Tank Floor	He.Yan, Gong.Tian.Shen
No.09	2-4-292	Investigation of Laser Tomography Imaging Reconstruction Algorithms for Ultrasound Field	Xiaoli Zhang, Xiujuan Feng, Feng Niu
No.10	2-4-308	Calibration of acoustic emission sensors in frequency bands below 100 kHz	Ke Wang, Longbiao He, Min Wang
No.11	2-5-196	High precision 3D measurement technique without phase unwrapping based on binocular structured light	Zhangle Xiong, Wei Xiao
No.12	2-5-489	Overview of landslide monitoring	Mo Quancheng, Gu Biao, Chen Chen
No.13	2-6-143	Assessment of Heat Treated 45 steel by multiple electromagnetic acoustic parameters	Yinqiang Qu, Xiaokai Wang, Cheng Qian
No.14	2-6-250	Detection of ITER Superconductor Cables Breakage Rate Based on Inverse Problem Algorithms	Shuxia Tian, Linfeng Xu, Zhenmao Chen
No.15	2-7-386	Defect detection by applying square-wave thermography in Honeycomb Sandwich Composites	Guozeng Liu, Weicheng Gao, Yijiao Chen
No.16	2-7-480	Research on intelligent NDT of subsurface delamination defects in fiber-reinforced composites based on super-resolution lock-in thermography	Zhitao Luo, Jiaxuan Xu, Jiaxin Zhu
No.17	2-8-469	Study on Acoustic Emission Signals Characteristic of Damage	Huanghuabin, XuMao-,Wang Zhulin
No.18	2-10-534	Numerical investigation for evaluating pipeline leakage via ultrasonic guided waves in PEM hydrogen production unit	Ling Huang
No.19	2-11-233	Optimization of Measurement Accuracy and Result Discussion of Lubricating Oil Moisture Sensor	Jingbing Cui, Xindi Qiu, Chenxing Sheng
No.20	2-11-282	Prediction of Lubricating Oil Performance Based on Neural Networks	Chenxing Sheng, Anqiang Hu, Xiang Zheng
No.21	2-11-330	Modeling the correlation of different sizes of wear abrasive grains in gearboxes based on multivariate nonlinear regression	BAI Jiawei, PANG Xinyu, QIN Guojun
No.22	2-15-149	Research on defect detection of photovoltaic cells based on dynamic pulsed eddy current thermography	Junjie Wang, Baoyuan Deng, Yunze He
No.23	2-16-113	Design of credit evaluation model of security evaluation agency based on cloud model	Hao Jie, Hao Suli, Xing Lijia

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No.26	3-1-056	The fault diagnosis of slewing bearings based on difference optimization bispectrum	Miaorui Yang, Yonggang Xu, Kun Zhang
No.27	4-9-340	A novel parameter estimation method of BTT data without gridding error	Ruochen Jin, Laihao Yang, Zhibo Yang
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No.29	5-5-477	Research on Autonomous Flexible-Driven Magnetic Flux Leakage Non-Destructive Inspection Robot Technology	haoran zhang, yanhua sun, chengjiao yu
No.30	5-6-374	Mechanisms of Stress Dynamic Evolution and Regulation Methods in Deep Hard Rock Mining Areas	Longjun Dong, Chenliang Hao, Zhongwei Pei
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No.32	5-16-405	Research on Elevator Noise Measurement and Control Based on Spectrum Analysis Technology	Ziming Xu, Junning Li, Sheng Wang
No.33	3-2-579	Research on crack damage evolution mechanism and fault features of planetary gear train	Tiantang Duan, Jing Wei, Quansheng Jiang
No.34	5-16-483	Semantic Segmentation-based Intelligent Safety Harness Detection for Elevator Maintenance Operations	Rongjun Liu, Zehui Zhang, Xiaobin Xu

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No.03	3-1-329	Research on Health Monitoring Methods for Ship Machinery Based on Multivariable Data Analysis and Machine Learning	Yongxu Chen, Kun Yang, Dayang Li
No.04	3-1-335	Interface debonding detection based on nonlinear ultrasonic Lamb waves	Zhenze Yang, Yongfeng Ren, Qiang Shi
No.05	3-1-396	Development and application of portable fault diagnosis instrument for traction elevator driving machine	Zhenli Yang, Dugang Kang, Dongping Zhang
No.06	3-1-425	A method of extracting compound fault information by fusiing correlated Kurtogram and product envelope spectrum	X. L. Dong, Y. P. Peng, C. Wu
No.07	3-1-540	Simulation on Acoustic Characteristics of Gas Pipeline Leakage	Dan Xia
No.08	3-3-300	Research on Detection and Monitoring Technology for Hydrogen Storage Cylinder Groups in Hydrogen Refueling Stations	Huiyong Duan, Zhixiang Duan, Hongwei Han
No.09	3-3-316	Experimental evaluation of high-pressure hydrogen compatibility of rubber sealing components on hydrogen storage system for vehicles	Qilin Wang, Yan Liu, Bing Han
No.10	3-3-332	Research on Real time Monitoring Digital Twin Platform for Ship Shafting	Yutong Gao, Kun Yang, Chunhao Lv
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No.16	4-9-248	A method for non-contact dynamic strain field calculation of rotating blisk under multi-mode conditions	Yuan Mingyang
No.17	5-2-078	Analysis of the impact of weighting methods on the environmental vibration evaluation results of high-speed maglev trains	Dongran Guo, Jingyu Huang, Ziyang Zhang
No.18	5-2-251	Study on a new-generation framework of prognostics and health management system for railway trains	Yong Qin, Ao Ding, Han Liu
No.19	5-2-236	Design of urban rail transit track detection probe	ZiKai Wang, WenPei Zheng, LaiBin Zhang
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No.21	5-3-515	Acoustic feature extraction and fault localization of low-speed heavy-duty bearings	Ting Wang, Rong Ma, Bin Hu
No.22	5-3-533	On-line Condition Monitoring of Wind Turbine Blades Based on Acoustic Emission Technology	Bai Sheng, Fu Yao, Guo Jun
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No.25	6-1-407	A lightweight model for separating oil debris aliasing signals based on full convolutional neural networks	Minglv Jin, Ning Wang, Ye Zheng
No.26	6-1-408	Enhanced Microwave-Based Nondestructive Testing for Defect Detection in Fiber-Wound Hydrogen Storage Tanks Using a Novel Fermi Antenna	J. P. Pan, Z. Wang, C. M. Zhu
No.27	6-1-410	A Feature Selection Method for Pipeline Defect Depth Quantitative Evaluation in Gas Gathering Station	Ye Zheng, Minglv Jin, Yuhan Li
No.28	6-1-416	Experimental study on ultrasonic thickness measurement of tank bottom plate	Chenxing.Jia, Yan.Zhang, Yu.Zhu
No.29	6-1-478	An Analysis of key parameters for safety monitoring of external hydrogen refueling stations	Wen.Lei, Yu.Zhu, Haotian.Si
No.30	6-3-479	Predictive Maintenance of Helicopters via Digital Twin Condition Monitoring	Usama Ansari, Si Zhuang, Lei Miao
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No.32	6-4-366	Research on Robot Operation Ultrasonic Testing Technology for Porcelain Pillar Insulators in Substation	Qu Juanjuan, Zhong Liqiang
No.33	5-3-369	Ultrasonic signal sparse reconstruction based on improved support matching pursuit with adaptive Gabor sub-dictionaries	Zhiwei Zhou, Jing Rao
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No.06	5-12-080	Research on the inverse problem of heat transfer process in boiler water-cooled wall	Hong.Jiang.Wang, Li.Li, Hong.Hui.Shi
No.07	5-12-112	Research on the method of determining furnace radiation heat load by measuring the temperature difference on the water-cooled wall surface	LI Li, WANG Hongjiang, SHI Honghui
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No.09	5-14-387	Automatic measurement system for cable crane tower displacement based on GeoCom	Faju Qiu, Jiancheng Liu, Zheng Shen
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No.18	5-16-453	A fault diagnosis method for elevator traction machines based on feature fusion and principal component analysis	Dongyang LI, Tonghe ZHANG, Qizhou WANG
No.19	5-16-466	A Brief Discussion on the Standardization Development of Domestic Lift Internet of Things	D.Q. Chen
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No.25	5-17-336	Risk and countermeasures of bolt connection in amusement rides	Zhitao Zheng
No.26	5-17-576	Research and application of condition monitoring technology of key components of roller coaster based on infrared thermal imaging technology	Wang zun xiang, Gong xue ru, Wan qiang
No.27	5-17-275	Application of Air Assisted Atomization Nozzles cooling in amusement	Xiaoliang Wang, Kun Zhang
No.28	5-17-392	Ferris wheel failure mode analysis and safety monitoring design based on ABAQUS	Xun Zhou, Peiqi Ren, Jianwen Huang
No.29	5-18-097	Study on the characteristics and influencing factors of magnetic flux leakage signal of broken wire damage of passenger ropeway wire rope	Qiang Wan
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