WCEMNT2025 CONFERENCE PROGRAM

		Nov. 18 th		
08:30-22:30		Registration & Booth Set-up		
18:30-21:30		Conference Dinner		
		Nov. 19 th		
08:30-09:35		Opening Ceremony		
		Academician Jianrong Tan		
00.25 10.05	Keynote 1	Zhejiang University, China		
09:35-10:05	【25-1-189】	Machine Learning and Performance Visualization: Key	Chair:	
		Technologies and Development Trends	Prof.	
		Prof. Antonello Tamburrino	Zhenmao Chen	
10.05 10.20	Keynote 2	University of Cassino and Southern Lazio, Italy		
10:05-10:30	【25-1-161】	Fast Methods for Electromagnetic Imaging and Material		
		Characterization		
10:30-10:45		Coffee Break		
		Prof. Gongtian Shen		
	Keynote 3	China Special Equipment Inspection and Research Institute,		
10:45-11:10	【25-1-188】	China		
	25-1-186	Progress of ISO Standards for Electromagnetic Non-		
		destructive Testing and the Development of ISO 22500		
		Prof. Yiming Deng	Chair:	
11:10-11:35	Keynote 4	Michigan State University, USA	Prof. Antonello	
11.10-11.33	【25-1-169】	【25-1-169】 Deployment Relevant	Deployment Relevant Uncertainty Quantification for NDE 4.0	Tamburrino
		Applications		
		Prof. Guiyun Tian		
11:35-12:00	Keynote 5	Chongqing University of Technology, China		
11.33 12.00	【25-1-172】	Recent Progression of Electromagnetic Nondestructive Testing		
		and Application		
12:00-13:30		Lunch		
		Poster Session 1	T	
	Poster Session			
	Advanced elect	tromagnetic sensor technologies and integrated systems		
		B Wei, S Huang, L Peng		
	Poster-01A	Tsinghua University, China		
	【25-1-007】	A Novel Lorentz Force Sensor for Simultaneous Measurement	Clasia.	
		of Defects and Motion Velocity in Nonferromagnetic Materials	Chair:	
13:30-14:50		C Tian, C Pei, Z Chen	Prof. Yingwei Li Prof. Ahmed	
15.50-14.50	Poster-02A	Xi'an Jiaotong University, China	Soltan	
	【25-1-019】	Research on Pulse Electromagnetic-ultrasonic Composite	Prof. Hai Yan	
		Detection Sensor and Method of Underwater Steel Structure	Prof. Haochen Liu	
		P Huang, L Peng, S Li, S Huang	1101. Hudenen Elu	
	_	Tsinghua University, China		
	Poster-03A	Electromagnetic Tomography for Magnetic Sample Defect		
	【25-1-028】	Detection using PID-Controlled Iterative L1 Regularization		
		Method		

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		Z Zhang, Z Fan, J Tang, Z Wang	
	Poster-04A	Zhejiang University of Technology, China	
	【25-1-030】	Research on Pulsed Eddy Current Array Sensor for Localized	
		Corrosion in Cladded Pipelines	l
		Y Lu, Z Liu, X Zhao, J Cheng	
	Poster-05A	Beijing University of Technology, China	
	【25-1-041】	An Improved Design of a Logarithmic Spiral Coil EMAT for	
		Enhancing the Signal Amplitude	
-		H Sun, S Liu, Y Zhang, J Hou, X Qing	
		Xiamen University, China	
	Poster-06A	Eddy Current Sensing-Enabled Smart Composite Bolts:	
	【25-1-050】	Fabrication and Self-Diagnosis Capabilities for Hole-Edge	
		Damage Monitoring	
-		Y Liu, Y Kang, Y Li, D Ha	
	Poster-07A	Huazhong University of Science and Technology, China	
		Detection Method for Broken Wires in Thickly Insulated	
	【25-2-055】	_	
-		Cables Based on a Composite Flexible Eddy Current Probe	
		Y Li, Y Kang, C Li	
	Poster-08A	Huazhong University of Science and Technology, China	
	【25-2-056】	A Cloud-based Detection Method and Device for Wire Ropes	Chair:
		Based on Wear-resistant Iron Tile Sensing	Prof. Yingwei Li
		Y Wang, Y Li, Z Liu, W Gao, P Wang, G Tytko, Z Chen	Prof. Ahmed
13:30-14:50	Poster-09A	Xi'an Jiaotong University, China	Soltan
	【25-1-059】	Pulsed Eddy Current Sensing and Screening of Interlaminar	Prof. Hai Yan
		Flaws in Heterogeneous Cladded Conductors	Prof. Haochen Liu
		Y Zhang, J Wu, D Zheng	1 Tot. Haoenen Eiu
	Poster-10A	Sichuan University, China	
	【25-1-061】	Flexible Array Eddy Current Sensor for Defect Detection in	
		Petroleum Drill Pipe Threads	
		D Zhu, J Zhang	
	Poster-11A	Guangdong University of Technology, China	
	【25-1-155】	RFID Enabled Wireless Passive Sensor of Long-Term Weak	
		Magnetic Monitoring	
	Poster Session		
	-		
_	destructive tes		
	【25-1-198】	-	
		Quantification in Pulsed Eddy Current Testing	
		K Honjo, M Tokitani, N Yusa	
	Poster-02R	Tohoku University, Japan	
		Probabilistic Depth Evaluation Method for Cracks on Fusion	
	23-1-013	Reactor Divertors using Direct Current Potential Drop	
		Technique	
	Poster Session	1-2: inciples, methods, and modeling of electromagnetic nonting Y Fu, Y Wang, Z Ou Nanchang Hangkong University, China Research on the Equivalent Model and Thickness Quantification in Pulsed Eddy Current Testing K Honjo, M Tokitani, N Yusa Tohoku University, Japan Probabilistic Depth Evaluation Method for Cracks on Fusion Reactor Divertors using Direct Current Potential Drop	

	Poster-03B [25-1-026]	S Zhang, Z Deng, X Song Hubei University of Technology, China A Wall Thickness Detection Method for Thick-walled Pipe Based on Low-Frequency AC Magnetization	
	Poster-04B 【25-1-027】	C Guo, Z Deng, X Song Hubei University of Technology, China Quantitative Detection Method for Deep Cracks in Ferromagnetic Materials Based on Electromagnetic Resonance	
	Poster-05B 【25-1-031】	N Brienza, N Khunsombutcharoen, B Poopat, C Janya- anurak, C Jirarunsatian, R Mudthanu, C Jomdecha King Mongkut's University of Technology Thonburi, Thailand Development of High-speed Inspection Technique Based on Motion Induced Eddy Current Testing for Surface Railway Defects	
	Poster-06B [25-1-034]	Q Sang, Z Deng, X Song Hubei University of Technology, China Tomographic Imaging Method for Deep Defects Based on Magnetic Permeability Perturbation with Low-Frequency Swept Magnetization	Chair: Prof. Yingwei Li
13:30-14:50	Poster-07B 【25-1-036】	X Liu, L Peng, S Wang, S Huang Tsinghua University, China Modeling and Experimental Study of Magnetic Barkhausen Noise in Creep-Damaged Ferromagnetic Materials	Prof. Ahmed Soltan Prof. Hai Yan Prof. Haochen Liu
	Poster-08B 【25-1-040】	X Wang, Y Fang, H Chen, Z Chen Xi'an Jiaotong University, China A Debonding Detection Method for Multilayer Heterogeneous Bonded Structures Based on Electromagnetic Acoustic Resonance	
	Poster-09B 【25-1-042】	J Cheng, Z Liu, X Zhao, Y Lu Beijing University of Technology, China Low-Voltage EMAT Thickness Measurement using Pulse Compression	
	Poster-10B [25-1-044]	Q Zhang, W Zheng, X Sun, Z Wang China University of Petroleum (Beijing), China Design and Detection Performance Study of an Integrated ECT/ACFM Excitation Probe for Small-Diameter Nozzle Fillet Welds in Pressure Vessels	
	Poster-11B [25-1-105]	A Bingler, T Uchimoto, S Bilicz, J Pávó Budapest University of Technology and Economics, Hungary Analysis of Inductive, Capacitive and Resistive Effects in Carbon Fiber Reinforced Plastics using an Integral Equation Model	

	Poster Session Frontier NDT	1-3: applications of artificial intelligence and machine learning	
	Poster-12A 【25-1-003】	X Zhang, Y Gu, R Pyle, X Niu, X Song, Y Zhang Hubei University of Technology, China Text-Guided Diffusion for Data Augmentation of PWI Images to Improve Defect Characterization	
	Poster-13A [25-1-005]	J Feng, M Li, G Zhou, N Xu, C Ye ShanghaiTech University, China Compensating for Temperature Drift in ECT Oxide Film Thickness Measurement using a Convolutional Generative Adversarial Network	
	Poster-14A 【25-1-009】	H Zhang, Z Chen, Y Peng Fujian Polytechnic Normal University, China MRDC-BiLSE: A Deep Learning Framework for PECT-based Thickness Recognition	
	Poster-15A 【25-1-013】	X Wang, W Li, Y Yang Donghua University, China A Knowledge Graph-based Method for Identifying Surface Cracks on Bearing Rings via Magnetic Particle Testing	Chair: Prof. Yingwei Li Prof. Ahmed Soltan Prof. Hai Yan Prof. Haochen Liu
13:30-14:50	Poster-16A 【25-1-014】	H Zhang, Z Chen Fujian Polytechnic Normal University, China Wavelet-Guided Dynamic Kernel Transformer for THz Image Super-Resolution	
	Poster-17A 【25-1-065】	W Li, X Wang, Y Yang Donghua University, China Quantitative Study of Crack Angle on the Surface of Steel Pipe Based on GA-BP Neural Network	
	Poster-18A 【25-1-103】	H Zhang, Q Zhao, Y Zhao, G Chen, Y He, W Yin Qufu Normal University, China Research on Defect Classification of Metallic Plates Based on Convolutional Neural Networks and Support Vector Machines	
	Poster Session 1-4: Intelligent damage imaging and quantitative evaluation of key structural components		
	Poster-19A 【25-1-022】	H Zeng, R Huang, W Yin Fuzhou University, China A Novel Arc-shaped Probe Based Defect Detection Method using Eddy Current Testing in Pipelines	
	Poster-20A 【25-1-043】	Z Tong, S Xie, Z Chen Xi'an Jiaotong University, China A Novel Spatio-Temporal Multi-scale Analysis for Depth and Planar Quantification of Stress Corrosion Cracks from Eddy Current Thermography	

		H Wei, Y Li, R Wang, W Ren, Y Fang, Z Chen	
	Poster-12B [25-1-057]	Xi'an Jiaotong University, China	
		Machine Learning-based Feature Selection of Microwave	
		Testing Signals and Visualised Evaluation of Backside Wall-	
		thinning Defects in Polyethylene Components	
		R Wang, Y Li, H Wei, P Wang, Y Fang, Z Chen	
	Poster-13B	Xi'an Jiaotong University, China	
	【25-1-060】	Planar Imaging of Internal Damages in Polyethylene Pipes via	
		Cross-polarisation Microwave Reflectometry	
		B Liu, Y Yang, J Hu, H Chen, W Guo, C Pei, Z Chen	
	Poster-14B	Xi'an Jiaotong University, China	
	【25-1-073】	Efficient Detection of Delamination Defect in CFRP Tube	
	22 1 0/32	Wall Based on a Laser Infrared Thermography Method	
		Equipped with a Thermal Wave Reflector	
		Y Yang, H Chen, B Liu, Z Tong, C Pei, Z Chen	
	Poster-15B	Xi'an Jiaotong University, China	
	【25-1-076】	Intelligent Quantitative Non-destructive Evaluation Method	
	123 1 070	for Delamination Defects in CFRP Tube Wall Based on the	
		Mirror-reflection Infrared Thermography	
	Poster Session	1-5:	
	Electromagnet	ic structural health monitoring technologies for life cycle	Chair:
	safety manager	ment	Prof. Yingwei Li
13:30-14:50		H Yang, Y Yu, F Wang, C Sun	Prof. Ahmed
13.30 1 1.50	D 16D	University of Electronic Science and Technology of China,	Soltan
	Poster-16B [25-1-033]	China	Prof. Hai Yan
	L 23-1-033	Research on Yarn Tension Detection Approach Based on Eddy	Prof. Haochen Liu
		Current Technique	
		J Hou, H Sun	
	Poster-17B	Xiamen University, China	
	【25-1-038】	An Embedded RFEC Method for Hole-Edge Crack Monitoring	
		in Bolted Joints: From Theoretical Modelling to Experimental	
		Validation	
	D4 10D	Y Liu, L Peng, S Huang, S Li	
	Poster-18B 【25-1-045】	Tsinghua University, China A Cable Insulation Defect Location Method Based on	
	L 23-1-043	Instantaneous Frequency Correlation	
		J Li, G Cai, H Yang, L Yang, C Yang, T Xi	
	Poster-19B	Institute of Metal Research, Chinese Academy of Sciences,	
	【25-1-069】	China The Influence of the Straightening Process on Eddy Comment	
		The Influence of the Straightening Process on Eddy Current Testing of Wespelov (CH738) Alloy Thin Wolled Tybes	
		Testing of Waspaloy (GH738) Alloy Thin-Walled Tubes	
		J Li, S Liu, G Xia	
	Poster-20B	Nanchang Hangkong University, China	
	【25-1-088】	Damage Evolution Mechanism and Fracture Early-Warning for Elevator Traction Steel Belts: A Feature Fusion and Health	
14:50 15:00		Indicator Based Approach Coffee Break	
14:50-15:00		Сонее втеак	

15:00-15:25	Keynote 6 【25-1-116】	Prof. Isaratat Phung-On King Mongkut's University of Technology Thonburi, Thailand A New Vision for Surface Inspection: In-situ Corrosion Detection with a Smart Thermal Camera	
Oral Session 1	-1: Eddy Curre	nt, Microwave, and Thermal Testing	
15:25-15:45	Invited 1 【25-1-191】	Prof. Chuanyu Zou China National Institute of Standardization, China International Standards: Bridging Global NDT Technology Advancement	
15:45-16:00	Oral 1	Prof. Chaofeng Ye ShanghaiTech University, China Assess Oxide Layer Thickness in the Absence of Calibration Samples: An Investigation of a Novel ECT Probe Employing Internal Calibration Distances	Chair: Prof. Zenghua Liu Prof. Shejuan Xie
16:00-16:15	Oral 2	Prof. Guanyu Piao Shanghai University, China High-Speed Inspection of Ferromagnetic Materials by Fusing Motion-Induced Eddy Current and Transient Permeability Perturbation	
16:15-16:30	Oral 3	Prof. Xin'an Yuan China University of Petroleum (East China), China Omnidirectional Regulation and In-situ Characterization of Alternating Electromagnetic Fields in Metallic Structures	
16:30-16:40		Coffee Break	
Oral Session 1	-2: Eddy Currei	nt, Microwave, and Thermal Testing	
16:40-17:00	Invited 2 【25-1-053】	Prof. Dongfeng He National Institute for Materials Science, Japan Corrosion Evaluation of Steel Rebar and Steel Cable using the Eddy Current Testing Method	
17:00-17:15	Oral 4 【25-1-058】	Wenlong Gao Xi'an Jiaotong University, China An Efficient Time-domain Solution to Transient Eddy Current Evaluation of Volumetric Defects in Coated Conductive Slabs via Analytical-Numerical Hybrid Modelling	Chair:
17:15-17:30	Oral 5	Prof. Changyou Li Northwestern Polytechnical University, China Time Reversal of Guided Microwave for Detecting Small Defects in Aircraft Skin	Prof. Wuliang Yin Prof. Jianchun Fan
17:30-17:45	Oral 6	Prof. Lei Zhang Agency for Science, Technology and Research, Singapore Electromagnetic Wave-based Detection of Damage in Concrete Structures	
17:45-18:00	Oral 7	Prof. Yijun Guo Chongqing University of Technology, China Quantitative Evaluation of Wall Thinning in a Metal Pipe using Guided Microwaves and Deep Learning	
18:30-21:30		Conference Dinner	

		Nov. 20 th	
		Prof. Junming Lin	
08:30-08:55	Keynote 7	Eddysun (Xiamen) Electronic Co., Ltd., China	
00.20 00.22	【25-1-183】	The Evolution of Industrial Eye: From Eddy Current Testing to	
		the Path of AI-enabled Intelligent Diagnosis	
Oral Session 2	-1: Multiphysics	s-based nondestructive testing	
		Prof. Shejuan Xie	
	Invited 3	Xi'an Jiaotong University, China	
08:55-09:15	【25-1-099】	Non-destructive Evaluation of Defects in Thermal Barrier Coating	
		System via Advanced Electromagnetics-driven Multi-Physics	CI.
		Fusion Prof. Chandrage Landacha	Chair:
	Invited 4	Prof. Cherdpong Jomdecha	Prof. Guiyun Tian
09:15-09:35	Invited 4	King Mongkut's University of Technology Thonburi, Thailand	Prof. Bo Hu
	【25-1-032】	Data Processing Approaches for Electromagnetic Survey and Inspection of Subsurface Structures	Prof. Bo Hu
		Prof. Zhichao Li	
09:35-09:50	Oral 8	Harbin Institute of Technology, China	
09.33-09.30	【25-1-018】	Improvement of Pulse Compression Rayleigh-wave EMATs	
		Jiannan Zhang	
		Pusan National University, Korea	
09:50-10:05	Oral 9	EMAT-driven Metamaterial-assisted Single-Shot Dual-Mode (S &	
07.50 10.05	【25-1-085】	A) Lamb-Wave Sensing for Simultaneous Defect Detection in	
		Containment Liner Plates: A Feasibility Study	
10:05-10:15		Coffee Break	
10.00 10.10		Prof. Younho Cho	
10:15-10:40	Keynote 8	Pusan National University, Korea	
10.13-10.40	【25-1-168】	A Complete Story of NDT with Fracture Mechanics	
Onel Session 2	2. Multinhygia	s-based nondestructive testing	
Of at Session 2	-2. Multiphysics	s-paseu nonuesu ucuve tesung	
10.40 11.00	Invited 5	Prof. Yunze He	
10:40-11:00	Invited 5	Prof. Yunze He Hunan University, China	
10:40-11:00	Invited 5 【25-1-167】	Prof. Yunze He	
10:40-11:00		Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices	
		Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices Prof. Adi Mahmud Jaya Marindra	
10:40-11:00	【25-1-167】	Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices	Chair:
	【25-1-167】 Invited 6	Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices Prof. Adi Mahmud Jaya Marindra Institut Teknologi Kalimantan, Indonesia	Chair: Prof. Isaratat
	【25-1-167】 Invited 6	Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices Prof. Adi Mahmud Jaya Marindra Institut Teknologi Kalimantan, Indonesia Advancing Passive Electromagnetic Sensing: Retransmission-	
11:00-11:20	【25-1-167】 Invited 6	Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices Prof. Adi Mahmud Jaya Marindra Institut Teknologi Kalimantan, Indonesia Advancing Passive Electromagnetic Sensing: Retransmission- based Flexible Chipless RFID for Curved Metallic Structures	Prof. Isaratat
	[25-1-167] Invited 6 [25-1-196]	Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices Prof. Adi Mahmud Jaya Marindra Institut Teknologi Kalimantan, Indonesia Advancing Passive Electromagnetic Sensing: Retransmission- based Flexible Chipless RFID for Curved Metallic Structures Prof. Bin Gao	Prof. Isaratat Phung-On
11:00-11:20	Invited 6 [25-1-196] Invited 7	Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices Prof. Adi Mahmud Jaya Marindra Institut Teknologi Kalimantan, Indonesia Advancing Passive Electromagnetic Sensing: Retransmission- based Flexible Chipless RFID for Curved Metallic Structures Prof. Bin Gao University of Electronic Science and Technology of China, China	Prof. Isaratat Phung-On
11:00-11:20	Invited 6 [25-1-196] Invited 7	Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices Prof. Adi Mahmud Jaya Marindra Institut Teknologi Kalimantan, Indonesia Advancing Passive Electromagnetic Sensing: Retransmission- based Flexible Chipless RFID for Curved Metallic Structures Prof. Bin Gao University of Electronic Science and Technology of China, China Electromagnetic Multi-physic AI Sensing NDT Technology and	Prof. Isaratat Phung-On
11:00-11:20	Invited 6 [25-1-196] Invited 7	Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices Prof. Adi Mahmud Jaya Marindra Institut Teknologi Kalimantan, Indonesia Advancing Passive Electromagnetic Sensing: Retransmission- based Flexible Chipless RFID for Curved Metallic Structures Prof. Bin Gao University of Electronic Science and Technology of China, China Electromagnetic Multi-physic AI Sensing NDT Technology and its Application	Prof. Isaratat Phung-On
11:00-11:20	Invited 6 [25-1-196] Invited 7 [25-1-164]	Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices Prof. Adi Mahmud Jaya Marindra Institut Teknologi Kalimantan, Indonesia Advancing Passive Electromagnetic Sensing: Retransmission- based Flexible Chipless RFID for Curved Metallic Structures Prof. Bin Gao University of Electronic Science and Technology of China, China Electromagnetic Multi-physic AI Sensing NDT Technology and its Application Prof. Jun Tu	Prof. Isaratat Phung-On
11:00-11:20	Invited 6 [25-1-196] Invited 7 [25-1-164] Oral 10	Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices Prof. Adi Mahmud Jaya Marindra Institut Teknologi Kalimantan, Indonesia Advancing Passive Electromagnetic Sensing: Retransmission- based Flexible Chipless RFID for Curved Metallic Structures Prof. Bin Gao University of Electronic Science and Technology of China, China Electromagnetic Multi-physic AI Sensing NDT Technology and its Application Prof. Jun Tu Hubei University of Technology, China	Prof. Isaratat Phung-On
11:00-11:20	Invited 6 [25-1-196] Invited 7 [25-1-164] Oral 10	Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices Prof. Adi Mahmud Jaya Marindra Institut Teknologi Kalimantan, Indonesia Advancing Passive Electromagnetic Sensing: Retransmission- based Flexible Chipless RFID for Curved Metallic Structures Prof. Bin Gao University of Electronic Science and Technology of China, China Electromagnetic Multi-physic AI Sensing NDT Technology and its Application Prof. Jun Tu Hubei University of Technology, China Design and Optimization of a Dual-Arc V-Shaped	Prof. Isaratat Phung-On
11:00-11:20 11:20-11:40 11:40-11:55	Invited 6 [25-1-196] Invited 7 [25-1-164] Oral 10	Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices Prof. Adi Mahmud Jaya Marindra Institut Teknologi Kalimantan, Indonesia Advancing Passive Electromagnetic Sensing: Retransmission- based Flexible Chipless RFID for Curved Metallic Structures Prof. Bin Gao University of Electronic Science and Technology of China, China Electromagnetic Multi-physic AI Sensing NDT Technology and its Application Prof. Jun Tu Hubei University of Technology, China Design and Optimization of a Dual-Arc V-Shaped Electromagnetic Acoustic Transducer for Weld Defect Detection	Prof. Isaratat Phung-On
11:00-11:20	Invited 6 [25-1-196] Invited 7 [25-1-164] Oral 10 [25-1-051]	Prof. Yunze He Hunan University, China Online Detection Technology for Self-excited Electromagnetic- thermal Vibration in Power Devices Prof. Adi Mahmud Jaya Marindra Institut Teknologi Kalimantan, Indonesia Advancing Passive Electromagnetic Sensing: Retransmission- based Flexible Chipless RFID for Curved Metallic Structures Prof. Bin Gao University of Electronic Science and Technology of China, China Electromagnetic Multi-physic AI Sensing NDT Technology and its Application Prof. Jun Tu Hubei University of Technology, China Design and Optimization of a Dual-Arc V-Shaped Electromagnetic Acoustic Transducer for Weld Defect Detection Shuzhi Wen	Prof. Isaratat Phung-On

12:10-13:30		Lunch	
		Poster Session 2	
	Poster Session Advanced elec	2-1: tromagnetic sensor technologies and integrated systems	
	Poster-01A 【25-1-062】	C Deng, J Wu, R Ke Sichuan University, China A Real-time Wellhead Drill Pipe Inspection Method Based on Open-loop Permanent Magnet Magnetization	
	Poster-02A 【25-2-066】	H Ma, Y Kang, C Li Huazhong University of Science and Technology, China Development of a Robot-assisted Flexible PMFP Testing System for Hub Bearing Inspection	
	Poster-03A 【25-1-070】	F Li, J Wu, H Xia, C Deng Sichuan University, China Defect Detection using Infrared Thermography at High Temperatures	
	Poster-04A 【25-1-077】	Y Han, Y Kang, B Feng Huazhong University of Science and Technology, China Conductivity Imaging with Magneto-Electric Microspheres for Crack Detection: a Novel Magnetic Particle Inspection Method	Chair: Prof. Hai Zhang Prof. Xiaokang Yin
13:30-14:50	Poster-05A 【25-1-078】	Y Chen Huazhong University of Science and Technology, China Automatic Crack Identification using a Novel 3D Profilometry- based Magnetic Particle Testing Method	
	Poster-06A 【25-1-081】	Z Wang, Q Li, R Qin, X Li, R Zhou Nanchang Hangkong University, China Study on Corrosion Imaging of Aircraft Riveted Structures Based on Pulsed Eddy Current	Prof. Ali Sophian Prof. Ali Sunny Prof. Dong Li
	Poster-07A 【25-1-095】	Q Li, Y Li, X Li, R Zhou, R Qin, Z Wang, C Lu Nanchang Hangkong University, China Optimization Design and Experimental Study of Pulse Eddy Current Detection Probe for Interlayer Corrosion Defects in Multi-Layer Riveted Aluminum Plate	Prof. Dong Li
	Poster-08A 【25-1-097】	H Zhang, X Cui, Y Zhao, H Wan, Q Liu, J Zhang, C Chen, H Tan Nanchang Hangkong University, China Research on Hysteresis Loop Reconstruction and Parameter Prediction Method Based on Barkhausen Noise Signals	
	Poster-09A 【25-1-102】	Z Liu, J Wu Sichuan University, China High-Speed Ultrasonic Thickness Measurement using Chirp- Excited EMAT and Power Spectral Density Analysis	
	Poster-10A 【25-1-117】	X Zeng, X Xiao, Z Han, J Cai, Y Wang Xiamen University, China Detection of Lubricant Wear Debris using Coaxial Electromagnetic Induction Coils	

		Z Weng, J Zhang	
	Poster-11A	Guangdong University of Technology, China	
	【25-1-156】	A Low-cost Phased Array with 2-D Beam Steering for High-	
		Spatial-Resolution Electromagnetic Non-destructive Testing	
	Poster Session		
	Innovative pri		
	destructive test		
		P Gao, W Gong, L Yang, R Lu, H Geng	
	Poster-01B	Xiamen University of Technology, China	
	【25-2-106】	Research on Intelligent Defect Quantification Models for Pipeline	
		Data-Driven Applications	
		F Qiu, X Feng, X Guo, R Liu	
	Poster-02B	Yunnan Power Grid Co., Ltd., China	
	【25-1-064】	Improved Correction of Terahertz Spectroscopy for Measuring the	
		Thickness of Insulating Materials	
		Y Xiao, Y Kang, B Feng	
	Poster-03B	Huazhong University of Science and Technology, China	
	【25-1-071】	Effect of Excitation Frequency on Motion-Induced Eddy Current	
		Speed Measurement	
		K Deng, Z Wang, Y Qu, H Chen, Z Chen	Chair:
	Poster-04B	Xi'an Jiaotong University, China	Prof. Hai
	【25-1-074】	A Multi-Featured Signal Fusion Method for NDE of Fatigue	Zhang
		Material Degradation of a Ferromagnetic Steel Based on	Prof. Xiaokang
13:30-14:50		Magnetic Adaptive Testing Signals	Yin
		Y Qu, X Wang, H Chen, C Pei, Z Chen	Prof. Ali
	Poster-05B	Xi'an Jiaotong University, China	Sophian
	【25-1-075】	An Improved Extraction Method for Attenuation Coefficient of	Prof. Ali Sunny
		EMAR Signals for Non-destructive Evaluation of Fatigue	Prof. Dong Li
		Damage in 304 Austenitic Steel	
		C Li, F Sun, M Fan, B Cao	
	Poster-06B	Anhui University of Science and Technology, China	
	【25-1-082】	Compensation Method for Thickness Measurement Based on	
		Error Estimation of Thermal Barrier Coatings in Eddy Current	
		System	
		R Qin, Q Li, Z Wang, X Li, R Zhou	
	Poster-07B	Nanchang Hangkong University, China	
	【25-1-083】	Pulsed Eddy Current Differential Probe Design and Research on	
		Rotary Differential Detection of Aircraft Riveted Components	
		Z Guo, J Fan, Y Tao, S Dai	
	Poster-08B	China University of Petroleum (Beijing), China	
	【25-1-084】	Online Detection and Quantitative Analysis of Erosion Damage	
		Based on Magnetic Memory Signals	
		S Zhang, T Sui, L Yang, G Cai	
	Poster-09B	Institute of Metal Research, Chinese Academy of Sciences, China	
	【25-1-093】	Far-Field Static Magnetic Detection for Quantifying Oxide Scale	
		Blockage in Weakly Ferromagnetic Boiler Tubes	

		X Luo, H Yang, W Jiang	
	Poster-10B	Chengdu University of Technology, China	
	【25-1-125】	WTD-WOA-SVMD Based Signal Processing for Coiled Tubing	
		Stress Distortion Zones	-
		Z Cao, Z Zeng	
	Poster-11A	Xiamen University, China	
	【25-1-133】	Profile Reconstruction of Curved CFRP Components Based on	
		Eddy Current Method	
		R Khatiwada, Z Xu, J Guo, K Song	
	Poster-12A	Nanchang Hangkong University, China	
	【25-1-134】	Pulse Eddy Current Testing of Carburizing Damage in Ethylene	
		Cracking Furnace Tubes	
		G Qiu, B Feng, Y Kang	
	Poster-13A	Huazhong University of Science and Technology, China	
	【25-1-136】	A Novel Method for Delamination Defects Detection in Steel	
		Plates Based on Static Magnetic Field Perturbation	
		J Li, Y He, G Piao	
	Poster-14A	Shanghai University, China	
	【25-1-139】	Microwave Nondestructive Testing Method for Moisture Content	
		Detection	Chair:
		Y Zeng, F Qiu, Y He	Prof. Hai
	Poster-15A	Nanchang Hangkong University, China	Zhang
12.20 14.50	【25-1-149】	Multi-Physical Field Coupling Effect on Macro-Micro Magnetic	Prof. Xiaokang
13:30-14:50	L 23-1-147	Response of Q235 Steel under Tensile and Compressive Stress	Yin Prof. Ali
			Sophian
		B Liu, Z Lian, H Yu, Z Wu, L He, L Yang, J Rao	Prof. Ali Sunny
	Poster-16A	Shenyang University of Technology, China	Prof. Dong Li
	【25-1-159】	Research on the Signal Quantization Method for In-line	Tion. Doing Li
		Inspection of Composite Defects in Pipeline Welds using Weak	
		Magnetic Method	
	Dogton 17 A	Z Wu, Z Lian, B Liu, L Yang, J Rao	
	Poster-17A 【25-1-193】	Shenyang University of Technology, China Magnete Magherical Pagrange Magheriers and Detection	
	₹ 23-1-193 ≱	Magneto-Mechanical Response Mechanism and Detection Method of Hydrogen-Induced Damage in Pipeline Steels	
		Method of Hydrogen-induced Damage in Fiperine Steers	
	Poster Session	2-3:	
		applications of artificial intelligence and machine learning	
		••	
		J Li, J Gao, H Zheng, S Jiao, D Li, Z Kou	
	Poster-18A	Taiyuan University of Technology, China	
	【25-1-087】	Research on Eddy Current Testing of Conveyor Belt Joint Twitch	
		Based on MixUp-CS-BP Method	
		Q Wen, D Xu, Y He, P Li, Z Long, J Mao, J Tang	
	Poster-19A	Central South University, China	
	【25-1-101】	Electromagnetic Nondestructive Testing for Defect Detection in	
	_	Copper Plate Processing using Intelligent Techniques	
		11 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	

	Poster-20A 【25-1-114】 Poster-20B 【25-1-126】 Poster-19B	Y Kou, X Zhang, T Li, H Che, S Jiao, J Han, Y He North University of China Research on Quantitative Evaluation of Surface Defect Parameters in Eddy Current Testing Based on AUN-CNN-LSTM Algorithm X Li, Z Zeng, Y Ren Xiamen University, China Quantitative Eddy Current Testing of Dense Rail Cracks Based on Machine Learning S Tian, Z Li, P Liu, S Wang, L Zhang, Z Chen Zhengzhou University of Light Industry, China	
	Poster-18B [25-1-145]	Damage Detection of Composite Laminated Plates Based on Ultrasonic Lamb Waves and Deep Learning Algorithms H Tang, F Zhang, C Zhou, C Jin Ningxia University, China Research on Eddy Current Stress Testing and Inversion for Metallic	
	Poston Cossion	Components 2-4: Photoelectric-electromagnetic integrated testing and	
	interdisciplina		
	interdiscipinia	Y Wu, Z Liu, R Li	CI.
	Poster-17B	Beijing University of Technology, China	Chair:
	【25-1-039】	Quantitative Estimation of Surface Protective Coating Thickness	Prof. Hai
	L 23-1-039 J	on CMC Based on Terahertz Time-Domain Spectroscopy	Zhang Prof. Vicelsona
13:30-14:50		Q Liu, X Cui, H Wan, Y Zhao, H Zhang, J Zhang, C Chen	Prof. Xiaokang Yin
13.30-14.30		Nanchang Hangkong University, China	Prof. Ali
	Poster-16B	Visualization of Grinding Burn on Shaft-type Components of	Sophian
	【25-1-098】	25Mn Alloy Steel via Eddy Current Pulsed Thermography:	Prof. Ali Sunny
		Simulation and Experiment	Prof. Dong Li
		Z Zhao, Z Liu, Z Wang	Tion. Doing Li
		Shandong University, China	
	Poster-15B	Research on Simultaneous In-situ Detection of Carbon Fiber	
	【25-1-115】	Composite Surface Morphology and Subsurface Crack Damage	
		Based on Fiber-Optic-Eddy Current Hybrid Nondestructive	
		Testing Principles	
		S Bai, L Gai, X Bai, F Hou, M Zhang, K Li, J Shen, Y Kang, H	
		Chen, T Li	
	Poster-14B	Shenyang University of Technology, China	
	【25-2-121】	Research on Bio-Physical Behavior Analysis of Multi-Parameter	
		Superparamagnetic Nanoparticles and ACS Imaging Technology	
		for Sentinel Lymph Node Biopsy	
		J Wang, B Deng, Y He	
	Poster-13B	Hunan University, China	
	【25-1-122】	Photovoltaic Module Inspection Based on Electromagnetic	
		Induction-assisted Scanning Photoluminescence Imaging	
		M Fan, J Guo, B Cao, F Sun	
	Poster-12B	China University of Mining and Technology, China	
	【25-1-190】	Characterization of Micro-defects in Engine Blades using Eddy	
		Current Array System	

14:50-15:00		Coffee Break		
	Keynote 9	Prof. Evangelos Hristoforou		
15:00-15:25	【25-1-178】	National Technical University of Athens, Greece		
Onel Seggion 3	1. A drawand as	New Advances in Steel Health Monitoring nsing technologies		
Oral Session 5	-1: Advanced se			
	Invited 8	Prof. Yingwei Li Yanshan University, China		
15:25-15:45	[25-1-004]	The Development of High-Intensity and High-Frequency		
	23-1-0042	Transcranial Magnetic Stimulation Device		
		Prof. Ahmed Soltan	Chair:	
	Invited 9	Nile university, Egypt	Prof. Yiming	
15:45-16:05	【25-1-177】	Smart and Secure IoT for Continuous Monitoring Based on Smart	Deng,	
		NDT Sensor Nodes	Prof. Bin Gao	
		Prof. Jiuhao Ge		
16.05 16.20	Oral 12	Nanjing University of Aeronautics and Astronautics, China		
16:05-16:20	【25-1-054】	Damage Detection in Nylon-Liner of Multilayer Composites		
		using Coplanar Capacitive Sensing Technique		
		Prof. Haishun Liu		
16:20-16:35	Oral 13	China University of Mining and Technology, China		
10:20-10:33	【25-1-129】	Additive Manufactured Magnetic Sensor Core with High Strength		
		and Low Loss		
	5:35-16:45 Coffee Break			
16:35-16:45		Coffee Break		
16:35-16:45		Coffee Break Prof. Zhenmao Chen		
	Keynote 10			
16:35-16:45 16:45-17:10	Keynote 10 【25-1-176】	Prof. Zhenmao Chen Xi'an Jiaotong University, China Some Research Advances on Rotating and Motion Induced Eddy		
	-	Prof. Zhenmao Chen Xi'an Jiaotong University, China		
16:45-17:10	【25-1-176】	Prof. Zhenmao Chen Xi'an Jiaotong University, China Some Research Advances on Rotating and Motion Induced Eddy		
16:45-17:10	【25-1-176】 -2: Advanced se	Prof. Zhenmao Chen Xi'an Jiaotong University, China Some Research Advances on Rotating and Motion Induced Eddy Current Testing	Chair:	
16:45-17:10	-2: Advanced se Invited 10	Prof. Zhenmao Chen Xi'an Jiaotong University, China Some Research Advances on Rotating and Motion Induced Eddy Current Testing nsing technologies	Prof.	
16:45-17:10 Oral Session 3	【25-1-176】 -2: Advanced se	Prof. Zhenmao Chen Xi'an Jiaotong University, China Some Research Advances on Rotating and Motion Induced Eddy Current Testing nsing technologies Prof. Shengfeng Qin	Prof. Cherdpong	
16:45-17:10 Oral Session 3	-2: Advanced se Invited 10	Prof. Zhenmao Chen Xi'an Jiaotong University, China Some Research Advances on Rotating and Motion Induced Eddy Current Testing nsing technologies Prof. Shengfeng Qin Northumbria University, UK	Prof. Cherdpong Jomdecha	
16:45-17:10 Oral Session 3 17:10-17:30	(25-1-176) -2: Advanced se Invited 10 [25-1-175] Oral 14	Prof. Zhenmao Chen Xi'an Jiaotong University, China Some Research Advances on Rotating and Motion Induced Eddy Current Testing nsing technologies Prof. Shengfeng Qin Northumbria University, UK Resilient Cognitive Digital Twin for Smart Cities Zeyi Shang China University of Petroleum (Beijing), China	Prof. Cherdpong Jomdecha Prof. Jianbo	
16:45-17:10 Oral Session 3	-2: Advanced se Invited 10 [25-1-175]	Prof. Zhenmao Chen Xi'an Jiaotong University, China Some Research Advances on Rotating and Motion Induced Eddy Current Testing nsing technologies Prof. Shengfeng Qin Northumbria University, UK Resilient Cognitive Digital Twin for Smart Cities Zeyi Shang China University of Petroleum (Beijing), China An Intelligent Diagnosis Method Based on Magnetic-Acoustic	Prof. Cherdpong Jomdecha	
16:45-17:10 Oral Session 3 17:10-17:30	(25-1-176) -2: Advanced se Invited 10 [25-1-175] Oral 14	Prof. Zhenmao Chen Xi'an Jiaotong University, China Some Research Advances on Rotating and Motion Induced Eddy Current Testing nsing technologies Prof. Shengfeng Qin Northumbria University, UK Resilient Cognitive Digital Twin for Smart Cities Zeyi Shang China University of Petroleum (Beijing), China An Intelligent Diagnosis Method Based on Magnetic-Acoustic Composite Testing for Assessing Flange Connection Status	Prof. Cherdpong Jomdecha Prof. Jianbo	
16:45-17:10 Oral Session 3 17:10-17:30	(25-1-176) -2: Advanced se Invited 10 [25-1-175] Oral 14 [25-1-089]	Prof. Zhenmao Chen Xi'an Jiaotong University, China Some Research Advances on Rotating and Motion Induced Eddy Current Testing nsing technologies Prof. Shengfeng Qin Northumbria University, UK Resilient Cognitive Digital Twin for Smart Cities Zeyi Shang China University of Petroleum (Beijing), China An Intelligent Diagnosis Method Based on Magnetic-Acoustic Composite Testing for Assessing Flange Connection Status Yue Li	Prof. Cherdpong Jomdecha Prof. Jianbo	
16:45-17:10 Oral Session 3 17:10-17:30	[25-1-176] -2: Advanced se Invited 10 [25-1-175] Oral 14 [25-1-089] Oral 15	Prof. Zhenmao Chen Xi'an Jiaotong University, China Some Research Advances on Rotating and Motion Induced Eddy Current Testing nsing technologies Prof. Shengfeng Qin Northumbria University, UK Resilient Cognitive Digital Twin for Smart Cities Zeyi Shang China University of Petroleum (Beijing), China An Intelligent Diagnosis Method Based on Magnetic-Acoustic Composite Testing for Assessing Flange Connection Status Yue Li Xi'an Jiaotong University, China	Prof. Cherdpong Jomdecha Prof. Jianbo	
16:45-17:10 Oral Session 3 17:10-17:30	(25-1-176) -2: Advanced se Invited 10 [25-1-175] Oral 14 [25-1-089]	Prof. Zhenmao Chen Xi'an Jiaotong University, China Some Research Advances on Rotating and Motion Induced Eddy Current Testing nsing technologies Prof. Shengfeng Qin Northumbria University, UK Resilient Cognitive Digital Twin for Smart Cities Zeyi Shang China University of Petroleum (Beijing), China An Intelligent Diagnosis Method Based on Magnetic-Acoustic Composite Testing for Assessing Flange Connection Status Yue Li Xi'an Jiaotong University, China Wireless-Flexible Magnetic Sensing Based on Magneto-Thermal	Prof. Cherdpong Jomdecha Prof. Jianbo	
16:45-17:10 Oral Session 3 17:10-17:30	[25-1-176] -2: Advanced se Invited 10 [25-1-175] Oral 14 [25-1-089] Oral 15	Prof. Zhenmao Chen Xi'an Jiaotong University, China Some Research Advances on Rotating and Motion Induced Eddy Current Testing nsing technologies Prof. Shengfeng Qin Northumbria University, UK Resilient Cognitive Digital Twin for Smart Cities Zeyi Shang China University of Petroleum (Beijing), China An Intelligent Diagnosis Method Based on Magnetic-Acoustic Composite Testing for Assessing Flange Connection Status Yue Li Xi'an Jiaotong University, China	Prof. Cherdpong Jomdecha Prof. Jianbo	

Nov. 21st						
		Prof. Mohamed Missous				
08:30-08:55	Keynote 11	University of Manchester, UK				
	【25-1-072】	Semiconductor Quantum Devices for Electromagnetic Non- destructive Testing of Metallic and Composite Materials				
Oral Sagaian A	1. Electrome on	netic imaging and tomography				
Oral Session 4						
	Invited 11	Prof. Wuliang Yin University of Manchester, UK				
08:55-09:15	[25-1-173]	Electromagnetic Array Imaging Techniques for Industrial				
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Applications	Chair: Prof. Benjamin			
		Prof. Hai Zhang				
00.47.01	Invited 12 【25-1-166】	Harbin Institute of Technology, China				
09:15-09:35		Frequency Multiplexed Truncated-Correlation Tomography				
		(FM-TCT)	Ducharne			
		Prof. Haochen Liu	Prof. Lisha Peng			
09:35-09:50	Oral 16	Xidian University, China				
	【25-1-090】	A Frequency-Modulation Laser Thermography Method for				
		Enhancement and Identification of Electronic Components				
		Prof. Xifeng Li University of Electronic Science and Technology of Chine				
	Oral 17	University of Electronic Science and Technology of China, China				
09:50-10:05	(25-1-020)	Calibration and Fractional-order Back Projection for Near-Field				
		MIMO-SAR Imaging with Applications to Non-destructive				
		Testing				
10:05-10:25		Coffee Break				
	Keynote 12 【25-1-163】	Prof. Guoqiang Liu				
		Institute of Electrical Engineering, Chinese Academy of				
10:25-10:50		Sciences, China				
		Momentum Reciprocity in Electromagnetic and Acoustic				
		Fields with Imaging Applications Prof. Davoud Shahgholian				
	Invited 13	Tarbiat Modares University, Iran				
10:50-11:10		Subsea Pipeline Failure Assessment Due to Complex Shaped				
	【25-1-170】	Corrosion Defects using Image Processing and Deep Learning				
		Methods	Chair:			
		Prof. Bo Wang	Prof. Evangelos			
11:10-11:30	Invited 14	Tsukuba Technology Co., Ltd., Japan	Hristoforou Prof. Luyao He			
11.10-11.30	【25-1-165】	Development and Application of Carbon Nanotube Cold	Pioi. Luyao ne			
		Cathode X-Ray Technology				
	Oral 18	Igor Sakhabiev				
11:30-11:45		Pusan National University, Korea				
11.30 11.43		An Intelligent Adaptive Tomography Method for Defect				
		Characterization using EMATs Vincenza Mettels				
11:45-12:00	Oral 19 【25-1-192】	Vincenzo Mottola University of Cassino and Southern Latium, Italy				
		A New Class of Invariant Transformations for Eddy Current				
		Testing				
12:00-13:30		Lunch				

13:30-13:55	Keynote 13 【25-1-024】	Prof. Weiying Cheng Japan Power Engineering and Inspection Corporation, Japan Electromagnetic Nondestructive Testing and Evaluation - From DC to Gigahertz	
Oral Session 5			
13:55-14:15	Invited 15 【25-1-157】	Prof. Luyao He Shenyang University of Technology, China Magneto-Stress Internal Inspection Technology for Composite Defects in Long-distance Oil and Gas Pipelines	
14:15-14:35	Invited 16 【25-1-171】	Prof. Benjamin Ducharne Institut Nationale des Sciences Appliqu ées de Lyon, France Magnetization Mechanisms for the Non-destructive Evaluation of Ferromagnetic Steel Parts	Chair: Prof. Adi Mahmud Jaya Marindra Prof. Yong Li
14:35-14:50	Oral 20 【25-1-021】	Prof. Hongen Chen Xi'an Jiaotong University, China A Study of Pinning Effect on Barkhausen Noise and Hysteresis Loop Based on Modified Ising Model	
14:50-15:05	Oral 21 【25-1-151】	Prof. Fasheng Qiu Nanchang Hangkong University, China Effects of Stress Gradient and Biaxial Stress on Barkhausen Noise and Magnetic Domain Wall Dynamics	
15:05-15:20	Oral 22 【25-1-096】	Dongyang Huang China University of Petroleum (Beijing), China Metal Magnetic Memory-based Damage Detection Technology for Oil and Gas Flange Bolts	
15:20-15:35		Coffee Break	
15:35-16:00	Keynote 14 【25-1-162】	Prof. Zhiwei Zeng Xiamen University, China Advances in Eddy Current Testing of Isotropic and Anisotropic Materials: Modeling, Theoretical Analysis, and Inspection Technology Development	
Oral Session 5	5-2: Magnetic me	ethods in nondestructive testing	
16:00-16:20	Invited 17 【25-1-052】	Prof. Bo Hu Nanchang Hangkong University, China Magnetic Detection Technology for Metal Component Defects	Chair:
16:20-16:40	Invited 18 【25-1-194】	Prof. Ali Sophian International Islamic University Malaysia, Malaysia Pulsed Eddy Current Array System for Corrosion Detection of Large Surface Areas	Prof. Weiying Cheng Prof. Chaofeng Ye
16:40-17:00	Invited 19 【25-1-195】	Prof. Ali Sunny Ernst & Young Ltd, UK Machine Learning-based UHF RFID Tag Sensing for Non- destructive Corrosion Monitoring	
17:00-17:15	Oral 23 【25-1-104】	Prof. Banarot Oboun King Mongkut's University of Technology Thonburi, Thailand Study of MBN Features for Classifying Stages of Rail Material Degradation under 4-Point Bending Fatigue	

17:15-17:30	Oral 24 【25-1-147】	Prof. Fuchen Zhang Ningxia University, China Detection Method of Compressive Stress-Induced Magnetic Anisotropy in Ferromagnetic Materials under Weak AC Excitation	Chair: Prof. Weiying Cheng Prof. Chaofeng Ye				
17:30-17:45	Oral 25 【25-1-119】	Prof. Jia Liu Southwest Jiaotong University, China Multi-Scale Analysis of the Influence of Microstructure on Stress Detection Based on Magnetic Barkhausen Noise					
17:45-18:00	Oral 26 【25-1-063】	Prof. Haiyan Xing Northeast Petroleum University, China Co-RF-SVM Cooperative Training: A Semi-supervised Approach for Weak Magnetic Signal Denoising					
18:30-21:30	Conference Dinner						
Nov. 22 nd							
08:30-12:00	Technical Tour						
12:00-13:30	Lunch						
13:30-18:00	Return trip & Exhibitor Move-out						