		o.zoom.us/j/81337801927?pwd=MytucHFmV0h	r 2022 (Tuesday) YeE05eG8wUzYzY3FXdz09 (Meeting No: 813 3	780 1927)		
8:10 am - 8:30 am Beijing Time (UTC +8)	Tencent: https://meeting.tencent.com/dm/QMBxVGlsjTrD (Meeting No: 288-482-603) Opening Ceremony - Welcome addresses from the General Chair, the president of Qingdao University of Technology, the president of the Chinese Society for Vibration Engineering. the chairman of the Organizing Committee, and the chairman of the International Steering Committee (Approximately 3 mins each)					
8:30 am - 9:30 am	Distinguished Plenary Lecture 1 (chaired by Professor Takuya Yoshimura, TMU Japan) How to Understand and Utilize Time Delays in Vibration Control Professor Haiyan Hu, Beijing Institute of Technology					
9:30 am -10:30 am	Distinguished Plenary Lecture 2 (chaired by Professor Youngjin Park, KAIST Korea) Acoustic Black Hole Effects for Vibroacoustic Applications					
10:30 am -10:50 am	Professor Li Cheng, Hongkong Polytechnic University Morning Tea Break					
10:50 am -11:30 am	Keynote Speech 1 (chaired by Professor Weikang Jiang, SJTU China) Control of Vibration Field by Actuator Array for Enhancing the Sound Quality of Panel Speakers Professor Jeong-Guon Ih, Korea Advanced Institute of Science and Technology					
11:30 am -12:10 pm		Keynote Speech 2 (chaired by Professor Michael Mcfarland, ZJUT China) Mechanical Applications of Cepstrum Analysis in Machine and Structural Health Monitoring Emeritus Professor Robert Randall, The University of New South Wales				
12:10 pm - 1:30 pm		Lunc	h Break			
Internet Link	ZOOM: 474 939 1426 https://us06web.zoom.us/j/4749391426?pwd=MHk5Z nVqVHlsZkJuVWhrOWIveDdlQT09 Tencent: 894-426-119 https://meeting.tencent.com/dm/uPMJNMVY1fjA	ZOOM: 202 846 6864 https://us06web.zoom.us/j/2028466864?pwd=NldBU1B YZmptVnJzTmZVTnBQbWczUT09 Tengcent: 204-844-123 https://meeting.tencent.com/dm/9xs9cSEa7R4M	ZOOM: 359 201 4584 https://us06web.zoom.us/j/3592014584?pwd=TU1jeXZ XZUxWeCtSUERVQkovVEZzdz09 Tencent: 645-894-813 https://meeting.tencent.com/dm/AWgVioOktMJO	ZOOM: 686 554 3279 https://us06web.zoom.us/j/6865543279?pwd=TXBl djUjRTQTRDRU9aN2hVeVg3dz09 Tencent: 494-731-158 https://meeting.tencent.com/dm/BjpOFPK62ya		
	CONCURRENT SESSION 1A CT01 Vibration of Continuous Systems Prof. Huancai Lu, ZJUT China Prof. Bo Wang, CHDU China #114 Wave Propagation in Smart Functionally Graded	CONCURRENT SESSION 1B CT04 Noise and Vibration Control Dr Liling Tang, SYSU China Dr Yuxing Wang, ZJU China #41 Robust Stability Enhancement of Model-Free	CONCURRENT SESSION 1C CT16 Machine Condition Monitoring and Fault Diagnosis Prof. Shixi Yang, ZJU China Prof. Hongjun Wang, BISTU China #94 Vibration Phase Information based Real-time Fault	CONCURRENT SESSION 1D SS01: Vehicle noise, vibration and harshness Challenge and Solution Prof. Takuya Yoshimura, TMU Japan Prof. Zhichao Hou, Tsinghua China #256 Estimation of center of gravity of upper body		
1:30 pm - 1:45 pm		Vibration Control for Dynamic Characteristic Variations of Proof-Mass Actuator Yuto Sato & Ansei Yonezawa & Heisei Yonezawa &	Detection Method for Power Transformers Jing Zheng & Hai Huang & Lingzhi Li & Xishan Jiang	sitting posture using force platforms		
	Fulei Chu	Itsuro Kajiwara Hokkaido University #105 Free and forced vibration analysis of rotating	Zhejiang University & China Jiliang University #112 The Semi Supervised Fault Diagnosis Model	#311 Improvement of transient vibration by mutua		
1:45 pm - 2:00 pm		shell-plate coupled structures treated with constrained layer damping Runze Zhu & Zhaoye Qin & Fulei Chu	Based on Convolutional Neural Network and Tri- Training	mean compliance and sensitivity analysis Kenta Akazawa & Takuya Yoshimura Tokyo Metropolitan University		
	Central South University	Tsinghua University	Zhang University of Science and Technology Beijing			
	#383 Vibration characteristics of folded laminated composite plates with various fibre orientations	#120 Robust topology optimization of CLD on plates under interval uncertainty	#221 Dynamic response analysis of a planetary gear system with tooth tip chipping fault	#312 The prediction of the occupant's response to vehicle body vibration using a modular transfer ma		
2:00 pm - 2:15 pm	Chendi Zhu & Gang Li Ningbo Institute of Dalian University of Technology	Dongdong Zhang University of Shanghai for Science and Technology	& Zhanqun Shi & Fengshou Gu	Jianchun Yao & Mohammad Fard & Kazuhito Kat RMIT University & NHK Spring Co., Ltd.		
	#400 Influence Mechanism of Low-frequency Characteristics of Long-period Ground Motions on the Cooperative Performance of RC Frame-Shear Wall	#122 Development of Mode Separation Method for Frame-Panel Structures Using 3D Discrete Wavelet Transform		Daoyu Shen & Shilei Zhou & Paul Walker & Nong		
2:15 pm - 2:30 pm	Structures Bo Wang & Ke Yang & Boquan Liu Chang'an University	Itsuki Nakashima & Takumi Inoue & Ren Kadowaki & Yuki Abe Kyushu University	Yubo Wang & Changfeng Yan & Bin Liu & Xin Zhang Lanzhou University of Technology	Zhang University of Technology Sydney		
	#414 Wave Localization in Two-dimensional Membranes Coupled to Continuous Viscoelastic	#128 A wide-frequency tuned mass damper for inhibiting rail corrugation on curve section of viaduct		#318 Effects of head motion on motion sickness duroll oscillation and car travel		
2:30 pm - 2:45 pm	Xiangle Cheng & Haoyu Wang & Yongxiong Xiao &	Xuejun Yin & Xiaotang Xu & Yapeng Wang& Huichao Li Qingdao Create Environment Control Technology Co., Ltd & GERB (Qingdao) Vibration Control Co., Ltd. & Lanzhou Jiaotong University	~	Kazuhito Kato & Kousuke Suzuki & Chikanori Ho. NHK SPRING CO., LTD.		
	#417 Dynamic modeling of complex spatial fluid- conveying pipeline based on transfer matrix method	#180 Simulation on Relation between Excitations and Structure-borne Noise of a Diesel Engine	#258 A transfer learning method for bearing fault diagnosis	#275 Analysis of Vertical Vibration Characteristics Vehicle with Non-circular Wheels		
2:45 pm - 3:00 pm	Xumin Guo & Hui Ma & Bangchun Wen Northeastern University	Junhai Zhang & Guoxi Jing & Teng Ma & Xiaochun Zeng & Yi Wang & Hai Liu Hebei University of Technology & Jiangling Automobile Co., Ltd.		Yunfeng Zhi & Ranyi Liu & Zhichao Hou Tsinghua University		
	#425 Dynamic Modeling of Hub-tapered Flexible Beam System by a High-precision Assumed Mode Method	#182 Vibration characteristic analysis of laminated composite conical-cylindrical shell in thermal environment with arbitrary boundary conditions	threshold denoising and Fast spectral correlation	#316 Broad-range vibration isolation characteristic an electric vehicle transmission mounting system Yuming Yin & Wenbin Shangguan & Xiaoyong Pa		
3:00 pm - 3:15 pm	McFarland & Huancai Lu	Peng Zuo & Xianjie Shi University of Science and Technology of China & China Academy of Engineering Physics	Zhang & Zhanqun Shi & Fengshou Gu Hebei University of Technology & University of Huddersfield	Yuming Yin & Wendin Shangguan & Xiaoyong Pai Xiaofeng Tu & Dongming Shen & Chao Yu Zhejiang University of Technology & South China University of Technology & Ningbo Tuopu Group		
	#109 Research on Flow-Induced Transient Vibration Characteristics of Elbow Based on Fluid-Structure Coupling	#203 Design and application of lightweight composite partitions with high sound insulation in hotel interior spaces	long short-term memory transfer learning method for remaining useful life prediction	#70 A novel seat suspension with a negative stiffne structure and a variable inertance device Junjie Zhao & Donghong Ning & Haiping Du & G		
3:15 pm - 3:30 pm		Ting Qu & Bo Wang & Hequn Min Southeast University	Chengying Zhao & Xianzhen Huang & Huizhen Liu	Liu Ocean University of China & University of Wollon		

3:30 pm - 4:00 pm	Afternoon Tea Break				
Internet Link	ZOOM: 474 939 1426 https://us06web.zoom.us/j/4749391426?pwd=MHk5Z nVqVHlsZkJuVWhrOWIveDdlQT09 Tencent: 894-426-119 https://meeting.tencent.com/dm/uPMJNMVY1fjA	ZOOM: 202 846 6864 https://us06web.zoom.us/j/2028466864?pwd=NldBU1B YZmptVnJzTmZVTnBQbWczUT09 Tencent: 204-844-123 https://meeting.tencent.com/dm/9xs9cSEa7R4M	ZOOM: 359 201 4584 https://us06web.zoom.us/j/3592014584?pwd=TU1jeXZ XZUxWeCtSUERVQkovVEZzdz09 Tencent: 645-894-813 https://meeting.tencent.com/dm/AWgVioOktMJO	ZOOM: 686 554 3279 https://us06web.zoom.us/j/6865543279?pwd=TXBEWF djUjRTQTRDRU9aN2hVeVg3dz09 Tencent: 494-731-158 https://meeting.tencent.com/dm/BjpOFPK62yaH	
	CONCURRENT SESSION 2A CT03 Vibro-acoustics and Structure-borne Noise Prof. Xiang Liu, CSU China Dr. Kai Zhang, OUC China	CONCURRENT SESSION 2B CT04 Noise and Vibration Control Prof. Baocheng Zhang, OUC China Prof. Zhicheng He, HNU China	CONCURRENT SESSION 2C CT16 Machine Condition Monitoring and Fault Diagnosis Prof. Niaoqing Hu, NUDT China Dr. Yi Yang, NUDT China	CONCURRENT SESSION 2D CT11 Vehicle System Dynamics and Control Prof. Wenbin Shangguan, SCUT China Prof. Donghong Ning, OUC China	
4:00 pm - 4:15 pm	#135 Acoustic analysis in a pipe by using analytical SEA (Optimization of an automobile exhaust pipe) Kai Kurihara & Toru Yamazaki & Guanchi Chen & Pengcheng Yan & Kazumasa Ikeda Kanagawa University	#214 Low frequency and broadband vibration and sound reduction of panels from high performance metamaterial damping Yubao Song China Aerodynamics Research and Developmment Center	the hydraulic pressing machine	#313 Structural design controlling vibration energy flow Kouki Ooura & Takuya Yoshimura Tokyo Metropolitan University	
4:15 pm - 4:30 pm	#409 Modeling and experimental study of non- reciprocal acoustic energy transfer in vibro-acoustic Duffing oscillator Jingxiao Huang & Jiangming Jin & Yuepeng Xiao & Donald Michael McFarland & Huancai Lu Zhejiang University of Technology	#228 Automated tuning of Kalman based virtual sensors for full-field acoustic pressure Bart Forrier & Mahmoud Elkafafy & Alberto Garcia de Miguel & Mariano Alvarez Blanco & Karl Janssens Siemens Industry Software NV	MC penalty function Hongjun Wang	#288 Error analysis on inertial parameter identification of a rigid body based on mass line method Peibao Wu & Zhichao Hou & Rongkang Luo Tsinghua University	
4:30 pm - 4:45 pm	#381 A Parametric Study of Wave Energy Dissipation in Eccentric Acoustic Black Hole Indentations Wei Huang & Hongli Ji & Jinhao Qiu Nanjing University of Science and Technology	#274 Study of adaptive algorithm of feedback active noise control system Lingchen Zhou & Ning Han Southeast University	Rolling Bearing Early Fault Diagnosis Xueliang Chen & Baojia Chen & Wenrong Xiao & Nengqi Xiao & Bin Zhou & Qiang Liu	#69 Controllable electrically interconnected suspension for the shock control of high-speed marine craft Haoyu Zhan & Donghong Ning & Haiping Du & Guijie Liu Ocean University of China & University of Wollongong	
4:45 pm - 5:00 pm	#426 Reconstruction of Acoustic Radiation from a Plane under Subsonic Turbulent Boundary Layer Excitation using Near-field Acoustic Holography Jiangming Jin & Liujiang Hou & Chengjie Xiong & Daren Zhou & Yongxiong Xiao & Minzong Li & Michael McFarland & Huancai Lu Zhejiang University of Technology & Shanghai Ocean University	#348 Research of random excitation identification for stochastic structures based on whole vehicle road noise Zhicheng He Hunan University	planetary gear transmission with tooth tip chipping Yi Yang & Yuehao Li & Lun Zhang & Guoji Shen & Jiao Hu & Peng Luo & Niaoqing Hu	#191 Utilization of Smith Predictor in a Leveling Operation by Scale Model of Hydraulic Excavator Takashi Kawamura & Takashi Hirano & Nobutaka Tsujiuchi & Akihito Ito Doshisha University	
5:00 pm - 5:15 pm	#249 A semi-analytical method for vibro-acoustic Characteristics of submerged Composite laminated Cylindrical Shell Tiangui Ye & Yuhang Yang Harbin Engineering University	#408 Bandgap Tuning and Vibration Suppression of the Acoustic Black Hole-Piezoelectric Shunt Damping Composite Structure Zanxu Chen & Tiangui Ye Harbin Engineering University	Tengyi Peng & Shilong Sun & Yu Zhou & Xiao Zhang Harbin Institute of Technology	#116 A semi-active inertance device based on electromagnetic dampers for the high-speed craft seat Guangrui Luan & Donghong Ning & Haiping Du & Guijie Liu Ocean University of China & University of Wollongong	
5:15 pm - 5:30 pm	#428 Calibrating Acoustic Field of a Vibrating Structure Located near a Pressure-Release Boundary Daren Zhou & Yongxiong Xiao & Zhimin Chen & Jingjun Lou & Minzong Li & Michael McFarland & Huancai Lu Zhejiang University of Technology & Naval University of Engineering & Shanghai Ocean University	#412 A Pre-identifying Method of Secondary Path for Active Vibration Control System Feng Li & Minggang Zhu & Lei Wu & Xinhui Li & Tiejun Yang Harbin Engineering University	extraction of rolling bearings under time-varying conditions	#328 Environmental vibration analysis of box-girder bridge subjected to train moving loads using the analytical dynamic stiffness method Sitan Tao & Xueyi Zhao & Xiang Liu Central South University	
5:30 pm - 5:45 pm	#326 A highly accurate and efficient analytical spectral dynamic stiffness method for acoustic and vibration problems within the whole frequency range Xueyi Zhao & Jiayu Pei & Xiang Liu Central South University	#187 Combination ray wave superposition method for near field acoustic holography and neural network construction of its combination coefficient Yanhao Chen & Yu Xiang & Jing Lu & Yujiang Wang Guangxi University of Science and Technology	#437 Vibration-based Condition Monitoring of Abnormal Friction in RV Re-ducer Qirong Xu & Fengshou Gu University of Huddersfield	#238 On the tonal noise emitted from the automobile wheel Zhe Li & Kohei Ono & Ryo Kiyotaki & Osamu Terashima Toyama Prefectural University	
	ZOOM: https://us06web		2022 (Wednesday) YeE05eG8wUzYzY3FXdz09 (Meeting NO: 813 3	3780 1927)	
8:00 am - 8:40 am	ZOOM: https://us06web.zoom.us/j/81337801927?pwd=MytucHFmV0hYeE05eG8wUzYzY3FXdz09 (Meeting NO: 813 3780 1927) Tencent: https://meeting.tencent.com/dm/QMBxVGlsjTrD (Meeting No: 288-482-603) Keynote Speech 3 (chaired by Professor Yang Xiang, WUT China) Structural Health Monitoring of Wind Turbine Blades by Means of Vibration and Sound Measurements Professor Fulei Chu, Tsinghua University				
8:40 am - 9:20 am	Keynote Speech 4 (chaired by Professor Lirong Cui, QDU China) Machine Learning and its Applications in Prognosis and Health Management Professor Mingjian Zuo, University of Alberta, Canada				
9:20 am - 10:00 am	Keynote Speech 5 (chaired by Professor Youqing Wang, BCU China) Vibration-based Structural Damage Detection Professor Weidong Zhu, University of Maryland, USA				
10:00 am - 10:20 am 10:20 am - 11:00 am	Morning Tea Break Keynote Speech 6 (chaired by Professor Zhichun Yang, NWPU China) Research of sound field control in automotive cabins at Huawei				
11:00 am - 11:40 am	Dr. Xiaojun Qiu, Huawei Technologies Co., Ltd. Keynote Speech 7 (chaired by Professor Ling Zheng, CQU China) Hyundai's World's First Road-Noise Active Noise Control, RANC				
11:40 am - 12:20 pm	Dr Kang-duck Ih, Hyundai Motor Company Distinguished Keynote Speech 8 (chaired by Professor Qian Ding, TJU China) The Future and Evolution of Noise and Vibration Design in Automobile Mr Hirotaka Shiozaki, CTE, Mitsubishi Motors Corporation				
12:20 pm - 1:30 pm	Mr Hirotaka Shiozaki, CTE, Mitsubishi Motors Corporation Lunch Break				
Internet Link	ZOOM: 474 939 1426 https://us06web.zoom.us/j/4749391426?pwd=MHk5Z nVqVHlsZkJuVWhrOWIveDdlQT09 Tencent: 918-522-642 https://meeting.tencent.com/dm/D6ZPDWC0m8Zh	ZOOM: 202 846 6864 https://us06web.zoom.us/j/2028466864?pwd=NldBU1B YZmptVnJzTmZVTnBQbWczUT09 Tencent: 396-648-996 https://meeting.tencent.com/dm/5DEocxGmjT6U	ZOOM: 359 201 4584 https://us06web.zoom.us/j/3592014584?pwd=TU1jeXZ XZUxWeCtSUERVQkovVEZzdz09 Tencent: 498-173-997 https://meeting.tencent.com/dm/EXUpKdGdeBIc	ZOOM: 686 554 3279 https://us06web.zoom.us/j/6865543279?pwd=TXBEWF djUjRTQTRDRU9aN2hVeVg3dz09 Tencent: 481-263-106 https://meeting.tencent.com/dm/XMJNKxXVnryg	

		APVC2021	Qinguao	
	CONCURRENT SESSION 3A CT10 Nonlinear Vibration and Control	CONCURRENT SESSION 3B SS10: Applications of active control	CONCURRENT SESSION 3C SS16: Acoustic black hole and vibro-acoustic	CONCURRENT SESSION 3D SS05: Dynamic modelling, simulation and
	Prof. Linke Zhang, WUT China Prof. Haining Liu, UJN China	Dr Haishan Zou & Dr Jiancheng Tao, NJU China Prof. Youngjin Park, KAIST Korea	coupling Prof. Hongli Ji, NUAA China Prof. Jinhao Qiu, NUAA China	application of rotor systems Prof. Hui Ma, NEU China Dr Zhaoye Qin, Tsinghua China Dr Yang Yang, SWJTU China
	#283 Research on Vibration Response of Compound Planetary Considering Backlash and Comprehensive Error	#110 Active control of low frequency sound absorption of large sized micro-perforated panel absorber on oblique incidence condition	#26 Flexural wave bandgap in plate strip with embedded periodic two-dimensional acoustic black holes	#44 Research on sideband distribution of planetary gear system with sun/ring gear tooth crack fault and output shaft installation error
1:30 pm - 1:45 pm	Tingqiong Cui & Yinong Li & Chenglin Zan Chongqing University	Xiyue Ma & Kean Chen & Lei Wang & Yang Liu Northwestern Polytechnical University & Xi'an University of Architecture and Technology	Bing Han & Hongli Ji & Jinhao Qiu & Li Cheng Nanjing University of Aeronautics and Astronautics & The Hong Kong Polytechnic University	Hongzheng Han & Hui Ma & Zhifang Zhao Northeastern University
	#384 RBFNN-based sliding mode control strategy for an active suspension system with nonlinear air spring		#43 Transmission Loss of Periodic Plates with Acoustic Black Holes	#277 Nonlinear modal analysis of rotor systems considering gyroscopic and dry friction effects
1:45 pm - 2:00 pm		Sanghyeon Lee & Youngjin Park Korea Advanced Institute of Science and Technology	Liling Tang & Li Cheng & Kean Chen The Hong Kong Polytechnic University & Northwestern Polytechnical University	XingRong Huang Beihang University
	#410 Enhanced energy transfer and multimodal vibration mitigation in an electromechanical acoustic black hole beam		#241 Effects of Annular Acoustic Black Holes on Noise Mitigation	#30 Position and Orientation Identification of Inertial Sensors Mounted on an Industrial Robot
2:00 pm - 2:15 pm	Linli Zhang & Xiang Sun & Jennifer Dietrich &	Shuping Wang & Ziyi Yang & Jiancheng Tao & Xiaojun Qiu University of Technology Sydney & Nanjing University	Ling Zheng & Jie Deng Chongqing University & Northwestern Polytechnical University	Huan Liu & Yaguo Lei & Xiao Yang & Wenlei Song & Junyi Cao Xi'an Jiaotong University
	#416 Design of Granular Chains to Reduce the Force Transmitted to a Fixed Barrier	#184 Research on Suppression of Lateral Vibration of Propulsion Shaft Based on Electromagnetic Actuator	#407 Vibration attenuation characteristics of a beam with cantilever-type resonators and lever-type inertial amplification mechanisms	#415 Coupling effects of outer ring tilt and defect on vibration characteristics of gear-rotor-bearing system
2:15 pm - 2:30 pm	McFarland & Xiangle Cheng & Alexander F.	Fucai Hu & Hongshuai Li & Liang Guo & Cong Zhang Wuhan University of Technology	Yonghang Sun & Chenyang Xi & Hui Zhen g Shanghai Jiaotong University	Hongyang Xu & Xiang Zhao & Pengfei Wang & Hui Ma & Yang Yang Northeastern University & China North Vehicle Research Institute
	#46 Theoretical and experimental investigation on active control of stiffness and damping characteristics of sandwich plate with MRE function core	#193 Comparison of FxLMS Algorithm and Transformer Algorithm for Automobile Engine Noise Control	#173 Dissipation mechanism of viscoelastic layers on sound transmission through active constrained layer damping composite plates	#430 Basis Reduction in the Finite Element Analysis of Fokker-Planck Equations
2:30 pm - 2:45 pm		Pengju Zhang & Xu Zhong & Haishan Zou & Jiancheng Tao & Sheng Wu Nanjing University & Shanghai Huawei Technologies Co., Ltd.	Hequn Min & Bo Wang & Chong Shen Southeast University	Hangyu Fu & Lawrence A. Bergman & Michael McFarland & Huancai Lu Zhejiang University of Technology & University of Illinois at Urbana-Champaign
	in Two Unbalanced Rotors	#118 Multichannel feedback active headrest combined conveniently adjustable structure and virtual microphone technique	#339 Vibration Absorber using Integrated Acoustic Black Holes	#418 Simulation and experimental research on vibratior characteristics of helical gear system considering multitooth spalling fault
2:45 pm - 3:00 pm	Miwa Sueda & Hiroki Mori & Takahiro Kondou Kyushu University & Kyushu Polytechnic College	Zeqiang Zhang & Ming Wu & Chen Gong & Lan Yin & Jun Yang Institute of Acoustics, Chinese Academy of Sciences	Meiyu Li & Jie Deng & Ling Zheng Chongqing university & Northwestern Polytechnical University	Zimeng Liu & Erliang Shang & Hui Ma & Hongzheng Han & Zhifang Zhao & Hongxu Tian Northeastern University
	#422 Nonlinear vibration of rotor system with dynamic angular misalignment of ball bearing	#212 A sensitivity constrained FeLMS algorithm for interior road noise	#91 Vibrotactile rendering method for radiating desired sound from a plate	#433 Unsupervised machine anomalous sound detection based on domain generalization technique
3:00 pm - 3:15 pm	Ма	Li Shi & Chaohui Zhou & Haishan Zou & Kai Chen & Jiancheng Tao & Xu Zhong & Sheng Wu Nanjing University & Shanghai Huawei Technologies Co., Ltd.	Wheejae Kim & Sangwon Park & No-Cheol Park Yonsei University	Linke Zhang & Yanwu Xu & Ming Jin & Yongsheng Yu Wuhan University of Technology
	#444 Analysis of vibration damping performance of thermoplastic composite structures	#208 Digital Structural Acoustic Control of Noise Transmission Through Transformer Tank with Active Constrained Layer Damping	#331 Noise Control by Sonic Black Holes Li Cheng & Jiajun Xia & Xiaoqi Zhang	#372 A method and structure design for identification o analyte concentration in aqueous solution by using a mistuned fluid-structure coupled vibration
3:15 pm - 3:30 pm		Bo Wang & Ting Qu & Hequn Min Southeast University	The Hong Kong Polytechnic University & Wuhan University of Technology	Yugang Chen & Yong Hwa Park Dalian University of Technology & Korea Advanced Institute of Science and Technology
3:30 pm - 4:00 pm		Afternoo	n Tea Break	
Internet Link	ZOOM: 474 939 1426 https://us06web.zoom.us/j/4749391426?pwd=MHk5Z nVqVHlsZkJuVWhrOWIveDdlQT09 Tencent: 918-522-642 https://meeting.tencent.com/dm/D6ZPDWC0m8Zh	ZOOM: 202 846 6864 https://us06web.zoom.us/j/2028466864?pwd=NldBU1B YZmptVnJzTmZVTnBQbWczUT09 Tencent: 396-648-996 https://meeting.tencent.com/dm/5DEocxGmjT6U	ZOOM: 359 201 4584 https://us06web.zoom.us/j/3592014584?pwd=TU1jeXZ XZUxWeCtSUERVQkovVEZzdz09 Tencent: 498-173-997 https://meeting.tencent.com/dm/EXUpKdGdeBIc	ZOOM: 686 554 3279 https://us06web.zoom.us/j/6865543279?pwd=TXBEWF djUjRTQTRDRU9aN2hVeVg3dz09 Tencent: 481-263-106 https://meeting.tencent.com/dm/XMJNKxXVnryg
	CONCURRENT SESSION 4A CT18 Other Vibration Related Topics Prof. Xiangqian Zhu, SDU China Prof. Wenli Yao, QUT China	CONCURRENT SESSION 4B SS17: Human vibration and health sensor applications Dr Yong-Hua Park, KAIST Korea	CONCURRENT SESSION 4C	CONCURRENT SESSION 4D SS08: Applications of machine learning in vibration and noise problems Dr Yongsheng Yu WUT China Dr Haijun Wu, SJTU China Dr Li Wang, WUT China Dr Meng Hee Lim, USM, Malaysia
	#34 Effects of simplifying assumptions on vibration serviceability assessment of pedestrian structures	#349 Design and Fabrication of cardiovascular dynamic simulator for reproducing human blood pressure waveform	#16 Research on Dynamic Modeling and Simulation of Acquisition Mechanism of Oscillatory Flapping Wing Wave Energy Power Generation Device	#92 A Modified SSA Functional for Real-Time Sound Source Localization
4:00 pm - 4:15 pm		Jae-Hak Jeong & Yong-Hwa Park Korea Advanced Institute of Science and Technology	Zifan Fang & Liming Zhang & Jiajia Wang & Fei Xiong & Xueyuan Xie & Kongde He & Weihua Yang China Three Gorges University	Yongsheng Yu & Linke Zhang & Chang Liu & Xiaohui Song & Li Xia Wuhan University of Technology
	#62 Free vibration analysis of ring-stiffened cylindrical shell-plate coupled structures by using the Chebyshev-Ritz formulation	#350 Correlation Analysis of Human Upper Limb Parameters and Oscillometric Signal in Blood Pressure Measurement		#99 The Leaking Recognition Of SF6 gas Based On Feature Extraction
4:15 pm - 4:30 pm	Tiantong Zhao & Yuehua Chen	Bomi Lee & Yong-Hwa Park Korea Advanced Institute of Science and Technology	Yongchao Zhang & Kun Yu & Zhaohui Ren Northeastern University & China University of Mining and Technology	Li Wang & Yongsheng Yu & Zhe Wang Wuhan University of Technology

		APVC2021	Qingaao	
4:30 pm - 4:45 pm	for Baby Carriage Chihiro Kamio & Tatsuhito Aihara	#389 Reliability of standing model and identification technique in response to support surface perturbation Jin Tsuneda & Motomichi Sonobe Kochi University of Technology	based on adaptive variational mode decomposition and	#230 An Application of Machine Learning Technique on Defect Detection of Steering Wheel Armatures based on the Transfer Function Yilin Zhang & Qiang Liu & Pingyu Mao & Chunwei Cao & Yisheng Xu & Christopher Morgan Autoliv (Shanghai) Vehicle Safety System Technical
4:45 pm - 5:00 pm	component non-uniform ground motion Zixin Liu & Zhangjun Liu & Xinxin Ruan Institute of Disaster Prevention & Wuhan Institute of	#411 Estimation of Transfer Function between Brachial Arterial Blood Pressure and Cuff Oscillometric Signal in Blood Pressure Measurement using Cardiovascular Simulator Junki Hong & Yong Hwa Park	#261 Attentional Temporal Convolutional Network for Remaining Useful Life Prediction of Bearings Zhengkun Chen & Baojia Chen & Wenlong Fu & Wenrong Xiao & Fafa Chen & Gongfa Li China Three Gorges University &	Center Co.Ltd. & Autoliv Steering Wheel Co.Ltd. #247 Howling abnormal sound diagnosis of aircraft based on spectrum visibility graph Xin Wen & Haijun Wu & Chenyi Zhao & Huayong Zhao Shanghai Jiaotong University & Shanghai Aircraft
	* *	Korea Advanced Institute of Science and Technology #364 Person identification utilizing vibration response of human fingers	#18 Design and Research on Electric Energy Conversion System of the Oscillating Flapping-Wing	Design and Research Institute #117 Mobile intelligent noise analysis system based on cloud computing
5:00 pm - 5:15 pm		Hyewon Yoo & Jae Woong Bae & Jae-Hak Jeong & Yong-Hwa Park Korea Advanced Institute of Science and Technology	Wave Energy Converter Zifan Fang & Yu Zhang & Xueyuan Xie & Jiajia Wang & Fei Xiong & Kongde He China Three Gorges University	Fucai Hu & Ming Jin & Yanwu Xu & Yongwen Hu & Yongsheng Yu Wuhan University of Technology
5:15 pm - 5:30 pm	Wang Li & Xia Li Wuhan University of Technology	#438 Vision-based High Precision Frequency Detection with the Assistance of Non-Harmonic Analysis Technology Rongfeng Deng & Fengshou Gu Beijing Institute of Technology; Zhuhai & University of Huddersfield	fault diagnosis based on encoder information	#385 Observer-based H∞ controller for the cab suspension of heavy duty vehicles **Bohuan Tan & Minyao Liu** Xiangtan University & Hunan University
5:30 pm - 5:45 pm	during the cruise of aircraft Yu Huang & Jingdong Li	#371 Measurement of Glucose Concentration in Test Solution by Using Acoustic Resonance in Helmholtz Resonators	Generator System Based on Silicon Oil Damper Nengqi Xiao & Lei Zou & Baojia Chen & Jiadong Hu	#107 Gas Leakage Signal Recognition Method Based on Convolution Neural Network Yongsheng Yu & Ziqin Zhou & Zhe Wang & Peng Song
	Shanghai Jiaotong University	Yugang Chen & Bomi Lee & Yong-Hwa Park Dalian University of Technology & KAIST 3rd Novembe	China Three Gorges University r 2022 (Thursday)	& Li Wang Wuhan University of Technology
	ZOOM: 474 939 1426	ZOOM: 202 846 6864	ZOOM: 359 201 4584	ZOOM: 686 554 3279
Internet Link	nVqVHlsZkJuVWhrOWIveDdlQT09 Tencent: 377-182-582 https://meeting.tencent.com/dm/SwTYp4TqP7XQ	https://us06web.zoom.us/j/2028466864?pwd=NldBU1B YZmptVnJzTmZVTnBQbWczUT09 Tencent: 967-988-352 https://meeting.tencent.com/dm/qEJuaEHdaozI	XZUxWeCtSUERVQkovVEZzdz09 Tencent: 354-125-522 https://meeting.tencent.com/dm/NOoyQGeqQxvy	djUjRTQTRDRU9aN2hVeVg3dz09 Tencent: 433-774-327 https://meeting.tencent.com/dm/hsSO0gVe7TKB
	CONCURRENT SESSION 5A SS04: Vibration-based structural damage detection Prof. Weidong Zhu, UM USA Dr Wei Xu, Hohai U. China	CONCURRENT SESSION 5B CT12 & SS10 Vibration Isolation and active control Dr Xuejun Yin, GERB Qingdao Prof. Hiroki Mori, Kyushu University Japan	CONCURRENT SESSION 5C SS11 & CT06: Metamaterials for noise and vibration control Dr Yanni Zhang, NUST China Prof. Ying Cheng, NJU China Prof. Toshihiko Komatsuzaki, Kanazawa U. Japan	CONCURRENT SESSION 5D SS09: Nonstationary signal processing algorithms and applications Dr Gang Yu, UJN China Dr Shiqian Chen, SWJTU China
	double-curved-beam systems by means of Green's	#13 Vibration Control with a Tunable Electromagnetic Shunt Damper under Opposing Magnet Pairs Configuration	#37 Vibration analysis of an acoustic metamaterial plate with periodical multi-degree of freedom resonators attached	#4 Wavelet-based time-frequency analysis tool for the diagnosis of vibration fault Haoran Dong & Gang Yu & Zhenghao Cui
8:15 am - 8:30 am	Xiang Zhao & Shiyao Meng & Weidong Zhu & Yinghui Li Southwest Petroleum University & University of Maryland USA & Southwest Jiaotong University	Ruqi Sun & Waion Wong & Li Cheng The Hong Kong Polytechnic University	Ting Wang & Xiao Wang & Meng Xu & Gong Zhao Huazhong University of Science and Technology & Institute of Machinery Manufacturing Technology	Jinan University
	#56 Structural damage detection using longitudinal vibration shapes through 3D laser scanning	#213 Reference signal selection in the feedforward active road noise control for an electric vehicle	#211 An underwater meta-structure for low-frequency broadband sound absorption	#21 Generalized Horizontal Multi-synchrosqueezing Transform
8:30 am - 8:45 am		Youfan Wang & Xu Zhong & Jiancheng Tao & Haishan Zou & Sheng Wu Nanjing University & Ltd.; Shanghai Huawei Technologies Co.	Yanni Zhang & Li Cheng	Wenjie Bao & Fucai Li & Nan Ye & Zhen Liu & Zhihao Chen & Gangao Zu Shanghai Jiaotong University
	#75 A Nonlinear Dynamical Model for Rotating Composite Thin-Walled Beams Subjected to Hygrothermal Effects	#337 Degree of controllability based on input energy minimization for active noise control system	#129 Analysis of dual-function thermoelastic cloak based on coordinate transformation theory	#25 Study on fluctuation in the spectrums of torque data during golf swing due to the mass difference of golf club shafts
8:45 am - 9:00 am	Liang Li Anhui University of Science and Technology	Ikchae Jeong & Youngjin Park Korea Advanced Institute of Science and Technology		Kousuke Okazaki & Nobutaka Tsujiuchi & Akihito Ito & Masahiko Ueda & Yuto Nakamura Sumitomo Rubber Industries, Ltd. & Doshisha University
		#148 Research on 3-RPC Parallel Vibration Isolation Platform Based on Magnetorheological Damper Jinghui Chen & Lixiang Tian & Xiaqi Zhou &	#301 Vibration Reduction Effects of Multi-layered Noise Absorbing and Insulating Materials Jiajun Hong & Tatsuya Araki & Takuya Yoshimura	#333 Wheel diameter difference detection of railway vehicle by ACMD Bo Xie & Shiqian Chen & Shunqi Sui & Kaiyun Wang
9:00 am -9:15 am	Hohai University	Chaoqun Wu Wuhan Digital Engineering institute & Wuhan University of Technology	Tokyo Metropolitan University	Southwest Jiaotong University
9:15 am -9:30 am	used for low-frequency linear and rotary vibration Yang Ming & Junjie Yang & Haibin Chen & Zhihua	#240 A database for active control of automobile engine noise Jiancheng Tao & Xu Zhong & Haishan Zou & Sheng	porous materials	#210 Acoustic-Net: A Novel Neural Network for Sound Localization and Quantification Guanxing Zhou & Hao Liang & Xinghao Ding &
		Wu & Xiaojun Qiu Nanjing University & Ltd.; Shanghai Huawei Technologies Co.	Koki Shige & Taisei Kusano & Osamu Terashima Toyama Prefectural University & Kanazawa University	
	#262 Strength calculation and dynamics analysis of large modulus rack and pinion	#396 Design of A Pseudo-Active Actuator with Semi- Active Actuators	#201 Research on the characteristics of acoustic metamaterials based on triply periodic minimal surface	#342 Detection for wheel eccentricity of freight wagons based on adaptive chirp mode decomposition
9:30 am -9:45 am	Baojia Chen & Zongxing Gong & Shaoxiong Dai &	Xianxu Bai & Jianchuan Chen & Chengxi Li Hefei University of Technology		Shunqi Sui & Shiqian Chen & Kaiyun Wang & Liang Ling & Bo Xie Southwest Jiaotong University

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	#356 An inverse method for quantitative damage assessment of plate-like structures based on vibration responses	#441 A multi-scale attention residual network for end- to-end environmental sound classification	#29 Low frequency sound insulation of a perforated plate-type acoustic metamaterial	#98 Speech Separation by Time-frequency Analysis Using Deep Learning		
9:45 am -10:00 am	•	Fucai Hu & Peng Song & Yongsheng Yu Wuhan University of Technology	Zhongyuan Liu & Tianran Lin Qingdao University of Technology	Kohei Takahashi & Toshihiko Shiraishi Yokohama National University		
10:00 am - 10:30 am	Morning Tea Break					
Internet Link	ZOOM: 474 939 1426 https://us06web.zoom.us/j/4749391426?pwd=MHk5Z nVqVHlsZkJuVWhrOWIveDdlQT09 Tencent: 377-182-582 https://meeting.tencent.com/dm/SwTYp4TqP7XQ CONCURRENT SESSION 6A	ZOOM: 202 846 6864 https://us06web.zoom.us/j/2028466864?pwd=NldBU1B YZmptVnJzTmZVTnBQbWczUT09 Tencent: 967-988-352 https://meeting.tencent.com/dm/qEJuaEHdaozI CONCURRENT SESSION 6B	ZOOM: 359 201 4584 https://us06web.zoom.us/j/3592014584?pwd=TU1jeXZ XZUxWeCtSUERVQkovVEZzdz09 Tencent: 354-125-522 https://meeting.tencent.com/dm/NOoyQGeqQxvy CONCURRENT SESSION 6C	ZOOM: 686 554 3279 https://us06web.zoom.us/j/6865543279?pwd=TXBEWF djUjRTQTRDRU9aN2hVeVg3dz09 Tencent: 433-774-327 https://meeting.tencent.com/dm/hsSO0gVe7TKB CONCURRENT SESSION 6D		
	CT15 Signal Processing Prof. Zhipeng Feng, USTB China Dr Shilong Sun, HIT China	CT05 Control and Optimization of Dynamic Systems Prof. Ling Zheng, CQU China Dr Jie Deng, NWPU China	SS03: Noise, vibration and their application in power systems Prof. Xuan Cai, State Grid HEPRI Dr. Chen Xu and Dr Xiaoqi Zhang, WUT China	CT05 & SS12: Mechanical dynamics Prof. Hongkun Li, DLUT China Prof. Toshihiko Shiraishi, Yokohama N. U. Japan		
	#237 Ground Reaction Force Estimation from Measured Kinematic Data: Data-driven Approaches	#119 An Optimal Designing of Vibration Absorber Based on Two-dimensional Acoustic Black Holes	#19 Application of optical vibration sensing in dry-type transformer condition monitoring	#89 Dynamics simulation of fault planetary gearbox based on rigid-flexible coupling model and experimental study		
10:30 am -10:45 am	Yang Lv & Hongbin Fang & Jian Xu & Xiaoxu Zhang Fudan University	Xiaoning Zhao & Hongli Ji & Jinhao Qiu Nanjing University of AeroNautics and Astronaytics	Huihui Jin & Qizhen Wang & Chunming Pei & Yuxing Wang Zhejiang University	Kongliang Zhang & Hongkun Li & Shunxin Cao & Chaoge Wang & Bin Sun Dalian University of Technology		
		#132 Self-powered active control on a single degree of freedom system under seismic excitation	#66 Analytical research of transverse/longitudinal vibration of propulsion shaft in pod	#59 Vibration and meshing characteristics of multi- stage gear transmission system with tooth modification under different assembly errors		
10:45 am - 11:00 am	Hongxin Shen & Michael McFarland & Huancai Lu Zhejiang University of Technology	Jinyang Li & Songye Zhu The Hong Kong Polytechnic University	Yaqi Tian & Cong Zhang & Xincong Zhou Wuhan University of Technology	Zhifang Zhao & Hongzheng Han & Pengfei Wang & Chenyi Han & Hui Ma & Yang Yang Northeastern University & China North Vehicle Research Institute		
	#429 Reconstruction of granular bead motion based on acoustic holography	#183 A simulation-based approach to identify dozer blade loads for data acquisition decision making	#126 Energy transmission in a two-dimensional duct- plate-cavity coupling system	#435 Input signal generation for virtual vibration test rig		
11:00 am - 11:15 am	& Li Yongjun & Zhou Daren & Li Minzong & Ye Zhansheng	Xiangqian Zhu & Longye Pan & Yajun Huang & Jin- Hwan Choi Shandong University & Shantui Construction Machinery co. Ltd & Kyunghee University		Lei Hou & Xiangqian Zhu Shandong University		
	#443 Sound source localization based on residual network and channel attention module	#159 Cascade Control of Liquid Fuel Thorium-based Molten Salt Reactor	#83 Research on the Interference Characteristics of Environmental Noise in UHV Substations with	#405 Diagnosis and Analysis of an Aero-engine Rotor Blade Rubbing Fault		
11:15 am - 11:30 am	Fucai Hu & Xiaohui Song & Yongsheng Yu Wuhan University of Technology	Hexiang Wang & Minghai Li & Jian Tian & Yongzhong Chen Shanghai Institute of Applied Physics, Chinese Academy of Sciences, Jiading Shanghai	Vibration Signal as Calculating Boundary Xuan Cai & Xishan Jiang & Huanyu Zhang & Haitao Shen Zhejiang University	Fujian Xu AECC Hunan Aviation Power plant Research Institute		
	#378 A phase-based vibration measurement technique using double tree-complex wavelet transform	#424 Testing data analysis of the synthetic baseline positioning system of a multi-jointed autonomous vehicle	#442 A gas leakage detection method with hybrid acoustic feature selection and stacking ensemble learning	#421 Studies on modal characteristics of GTF star gear- rotor system considering structural flexibility and gyroscopic moments		
11:30 am - 11:45 am	Shanghai Jiaotong University	Ruihu Zhang & Huancai Lu & Michael McFarland Zhejiang University of Technology	Yan & Yongsheng Yu Wuhan University of Technology & Wuhan Textile University & Institute of Acoustics CAS	Hongxu Tian & Haixu Wang & Zimeng Liu & Hui Ma Northeastern University		
	#317 Separation and conversion of mono speech and noise	#232 Dynamic Modeling of Rolling Bearing with Local Defect underThermal Elastohydrodynamic Lubrication	aeroacoustic prediction	#215 Control and optimization of contact behavior in four-point contact ball bearings		
11:45 am - 12:00 pm	Hunan University	Yubo Wang & Changfeng Yan & BinLiu & Xin Zhang Lanzhou University of Technology	Shihao Wang & Chengyu Han & Xujing Tang & Chen Xu Wuhan University of Technology	Ye Zhou & Guofa Sun Qingdao University of Technology		
	#440 Numerical comparison of adaptive filters in stiffness parameter identification: extended Kalman filter and recursive least squares	#60 A diffusion transform domain FxLMS algorithm for multi-channel active noise control with variable spatial smoothing		#436 Preparation and High Temperature Damping Properties of Graphene Oxide Reinforced Polydimethylsiloxane Composites		
12:00 pm - 12:15pm	Alireza Sadegh & Ali Bakhshi & Mohammad Rahai Sharif University of Technology, Iran	Y. J. Chu & S. C. Chan & C. M. Mak & M. Wu South China University of Technology & The University of Hong Kong & The Hong Kong Polytechnic University & Institute of Acoustics, Chinese Academy of Sciences		Juan Du & Tong Li Dalian University of Technology		
12:15 pm - 1:30 pm			h Break			
Internet Link	ZOOM: 474 939 1426 https://us06web.zoom.us/j/4749391426?pwd=MHk5Z nVqVHlsZkJuVWhrOWIveDdlQT09 Tencent: 377-182-582 https://meeting.tencent.com/dm/SwTYp4TqP7XQ	ZOOM: 202 846 6864 https://us06web.zoom.us/j/2028466864?pwd=NldBU1B YZmptVnJzTmZVTnBQbWczUT09 Tencent: 967-988-352 https://meeting.tencent.com/dm/qEJuaEHdaozI	ZOOM: 359 201 4584 https://us06web.zoom.us/j/3592014584?pwd=TU1jeXZ XZUxWeCtSUERVQkovVEZzdz09 Tencent: 354-125-522 https://meeting.tencent.com/dm/NOoyQGeqQxvy	ZOOM: 686 554 3279 https://us06web.zoom.us/j/6865543279?pwd=TXBEWF djUjRTQTRDRU9aN2hVeVg3dz09 Tencent: 433-774-327 https://meeting.tencent.com/dm/hsSO0gVe7TKB		
	CONCURRENT SESSION 7A CT16&17 Machine and Structural Condition Monitoring Prof. Tian Han, USTB China Dr Guojin Feng, HBUT China	CONCURRENT SESSION 7B CT13 Vibration Utilization and Energy Harvesting Prof. Shigeru Aoki, TMCIT Japan Dr. Tong Li, DLUT China	CONCURRENT SESSION 7C SS14: Multifunctional integrated devices and applications Prof. Jiu Hui Wu, XJTU China Prof. Tianning Chen, XJTU China	CONCURRENT SESSION 7D MS01: Mini-symposium on Non-linear Dynamics and Its Application Prof. Qian Ding, TJU China Prof. Jun Jiang, XJTU China		
	#152 Damage identification of twist-beam based on strain modal analysis	#36 A New Knurling Technology Using Ultrasonic Vibration		#52 Rate-dependent tipping phenomenon in a thermoacoustic system with Lévy noise		
1:30 pm - 1:45 pm	Yulin Luo & Lixin Song & Zhichao Hou & Hongyu Wang Tsinghua University	Shigeru Aoki & Yasunori Sakai & Tomohisa Tanaka Tokyo Metropolitan College of Industrial Technology & Shibaura Institute of Technology & Tokyo Institute of Technology	Fuyin Ma & Jiuhui Wu Xi'an Jiaotong University	Xiaoyu Zhang & Yong Xu Northwestern Polytechnical University		
	#401 A noncontact and automatic laser-based Rayleigh wave system for inspecting the integrity of	#388 Applicability of powering sensors by harvesting vehicle body vibration energy: A tentative review	#373 Reduction of vibrotactile perception level for vehicle accelerator pedal	#108 Modal balancing of the nonlinear rotor-bearing system based on nonlinear normal modes		
1:45 pm - 2:00 pm	Peter W. T. TSE & Imran Ghafoor	Ranyi Liu & Zimu Chen & Haoyang Li & Peiqi Yu & Pengyu Zu & Zhichao Hou	Junsun Yoo & Seonbin Lim & No-Cheol Park Yonsei University	Tianzhu Wang & Qian Ding Tianjin University		
	City University of Hong Kong	Tsinghua University 5				

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2:00 pm - 2:15 pm	Frame Structure by Artificial Neural Network Hiroyuki Kuroki Kyushu Polytechnic College	#174 Baesd Hybrid Simulation Method Study of Pipe Resonance Cavity Changan Bai & Tianning Chen & Wuzhou Yu & Ze Zhou Xi'an Jiaotong University & Tongji University & Hexagon FFT	#125 Vibro-Acoustic Characteristics Analysis of Building Structures Based on Mode Synthesis Strategy and Nonlinear Modal Theory Xingrong Huang Beijing University of Aeronautics and Astronautics	#361 Dynamic Modeling and Vibration Analysis of Compound Planetary System Considering Nonlinear Factors Tingqiong Cui & Yinong Li & Chenglin Zan Chongqing University
2:15 pm - 2:30 pm	Xiuqun Hou & Qinglei Jiang & Biqi Miao China Nuclear Power Operation Technology	#392 Variable stiffness characteristics for vehicle vibration energy harvesting Ranyi Liu & Zimu Chen & Haoyang Li & Peiqi Yu & Pengyu Zu & Zhichao Hou Tsinghua University	#242 Vibro-acoustic response of the rectangular panel with elastic constraints induced by aeroacoustic noise from the backed cavity Chizhen Xu & Heye Xiao & Dan Sui & Jie Zhou & Jintao Gu Northwestern Polytechnical University	#101 Non-smooth characteristics of rotor/stator rubbing systems with the Stribeck friction model Yang Li & Shunzeng Wang & Ling Hong & Jun Jiang Xi'an Jiaotong University
2:30 pm - 2:45 pm	#439 Partial Transfer Fault Diagnosis of Rotating Machines Based on Subclass Alignment Network Kun Yu & Kari Koskinen & Tian Ran Lin & Xuesong Wang & Yuyu Cheng China University of Mining and Technology, Tampere University Finland, Qingdao University of Technology		#248 The study on underwater vibration and acoustic radiation of functionally graded piezoelectric plates with general boundary conditions Tiangui Ye & Xinxin Wang Harbin Engineering University	#143 Vibration of Solar Panels in Consideration of Nonlinear Stiffness of Tape Spring Hinges and Flexible Deformation of Panels Wenyan Gu & Xiangqian Zhu & Jinsheng Zhang & Yegao Qu Shandong University & Shanghai Jiaotong University
2:45 pm - 3:00 pm	Closing Ceremony & the Best Student Paper Awards			
		Papers to be included in the proceedings	s but not presenting in the parallel session	s
	Powertrain Rong Bi & Wenfeng Zhan & Jingsi Wei &	#55 Vibration characteristics of a rotating drum partially coated with strain-depended hard coatings Dongxu Du & Wei Sun Northeastern University		#142 Dynamic response of a rub-impact sealed rotor system considering bearing time-varying stiffness under maneuvering flight Renzhen Chen & Xiaopeng Li & Jing Su Northeastern University
	analysis of elemental modal strain energy Sheng Lei & Wei Tian & Min Lei South-Central University for Nationalities, Wuhan China	#418 Simulation and experimental research on vibration characteristics of helical gear system considering multi-tooth spalling fault Zimeng Liu & Erliang Shang & Hui Ma & Hongzheng Han & Zhifang Zhao & Hongxu Tian Northeastern University	discontinuous variable-stiffness boundary conditions Dongxu Du & Wei Sun & Xianfei Yan	#340 Pitting Failure Model and Effect on Time-Varing Meshing Stiffness of Spur Gears Jiasong Li & Zong Meng & Yang Guan Yanshan University
	#345 Research on Collision Depolymerization Process of Agglomerate with Flip-flow Screen Panel Tang Jian & Xiong Xiaoyan & Tang Xian & Shen Qi Taiyuan University of Technology	function constrained by Dirac-delta function for near-field acoustic holography	shock mitigation system Ping Jiang & Ling Yuan & Zhiyuan Si & Xianxu Bai	#352 A novel Fault Identification Method for Planetary Wheel of RV Reducer Based on Variational Mode Decomposition and S Transform Yu Zi & Jun Zhou Kunming University of Science and Technology
	performance PMSM for a clutch coupling motor module used for Hybrid Vehicles Guojun Bai Guangdong Zhuhai Supervision Testing Institute of Qualityand Metrology	#245 Study on fault diagnosis of rolling bearing based on S-transform and BP neural network Hefeng Zhou & Ruifeng Li & Zhangfu Tian & Yun Zhao & Haijun Wu & Weikang Jiang National University of Defense Technology & Shanghai Jiao Tong University & Changsha University of Science and Technology		

End of Programme