

Oral Sessions

Oral Session Day1: a.m.

| Tuesday, September 19 8:30-12:00 | | Ginkgo Hall (F3), Building 1 | |
|------------------------------------|---|------------------------------|--|
| Time | Content | Chair | |
| 8:30-8:45 | Opening ceremony | Fulei Chu | |
| 8:45-9:00 | In memory of Professor Helmut Springer and Professor David Ewins, esteemed members of the Technical Committee | | |
| 9:00-9:40 | Plenary speech: The challenges that Rotordynamics will face due to the energy transition Paolo Pennacchi Politecnico di Milano | | |
| 9:40-10:20 | Plenary speech: Tribodynamics based Condition Monitoring via On-Rotor Sensing Technologies Andrew Ball University of Huddersfield | | |
| 10:20-10:40 | Coffee Break | | |
| 10:40-11:20 | Plenary speech: Gas seals in the 21 st century and their effect on rotordynamic stability Luis San Andrés Texas A&M University | Jussi Sopanen | |
| 11:20-12:00 | Plenary speech: Theory and technology of vibration and deformation measurement based on microwave sensing Zhike Peng Shanghai Jiao Tong University | | |

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Oral Session Day1: p.m.

| Tuesday, September 19 14:00-16:00 | | Site: Meeting Room 5 (F2), Building 1 | | |
|--|---|---------------------------------------|--|---------------|
| Oral Session: Dynamic Analysis and Stability | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 14:00-14:30 | Zhongliang Xie | Northwestern Polytechnical University | The fluid-structure interaction dynamic behaviors of water-lubricated bearings: theoretical and experimental study | Rajiv Tiwari |
| 14:30-14:45 | Jian Zhang, Shiping Song, Chao Li, Yanhong Ma, and Jie Hong | Beihang University | Dynamic Analysis and Safety Design for Aero-engine Rotor-Support System under the Blade-off | |
| 14:45-15:00 | Atul Kumar Gautam and Rajiv Tiwari | Indian Institute of Technology | Study of Multiplicative Load on the Misaligned Rotor-AMB System | |
| 15:00-15:15 | Chongyang Wang, Xilong Hu, Fan Qin, and Lihua Yang | Xi'an Jiaotong University | Dynamic modeling and stability analysis of the rod-fastening rotor system with the different preload status | |
| 15:15-15:30 | Yongbo Ma, Jie Hong, Shaobao Feng, and Yanhong Ma | Beihang University | Research on the nonlinear response of the rotor system with bolted joint with spigot | |
| 15:30-15:45 | Fahimeh Mehralian, R. D. Firouz-Abadi, and Masoud Yousefi | Sharif University of Technology | Effect of support parameters on the vibrations of a cracked rotor passing through critical speed | |
| 15:45-16:00 | Coffee Break | | | |

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| Tuesday, September 19 16:00-17:30 | | Site: Meeting Room 5 (F2), Building 1 | | |
|--|--|---------------------------------------|--|---------------|
| Oral Session: Dynamic Analysis and Stability | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 16:00-16:15 | Li Fan, Tsuyoshi Inoue, and Akira Heya | Nagoya University | Influence of Slight Gravitational Effect on the Characteristics of Onset Speeds of Instability and Stability in the Vertical Rotating Shaft Supported by Journal Bearing | Horst Ecker |
| 16:15-16:30 | Jirui Zhu | Hebei University of Technology | Dynamic Modeling and Characteristics Analysis of Planetary Gear System under Gear Wear | |
| 16:30-16:45 | Florian Tezenas du Montcel, Sébastien Baguet, Marie-Ange Andrianoely, Régis Dufour, Stéphane Grange, Laurent Briançon, and Piotr Kanty | Univ Lyon | Rotordynamics of a Vibroflot | |
| 16:45-17:00 | Tichang Jia, Chaofeng Li, Shijie Pan, and Yunzhao Wang | Northeastern University | Investigation of Vibration Natural Characteristics and Response for Rotating Beam with Tenon Jointed Structure under Thermal Environment | |
| 17:00-17:15 | Yingjie Li, Guang Zhao, Zexin Zhang, Yunbo Yuan, Jian Li, and Yongquan Wang | Dalian University of Technology | Sensitivity of Spline Self-excited Vibration to Structure Parameters | |
| 17:15-17:30 | R. D. Firouz-Abadi, Fahimeh Mehraian, Hadi Amirabadizadeh, and Masoud Yousefi | Sharif University of Technology | A Novel Approach to Model the Shrink-Fit Connection | |

| Tuesday, September 19 14:00-16:00 | | Site: Meeting Room 6 (F2), Building 1 | | |
|--|--|--|---|-----------------------|
| Oral Session: Nonlinear Phenomena in Rotordynamics | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 14:00-14:30 | Lei Hou | Harbin Institute of Technology | Nonlinear dynamic and thermal coupling analysis of aero-engine dual rotor-bearing systems | Timo Pekka Holopainen |
| 14:30-14:45 | Chao Peng and Alessandro Tasora | University of Parma | Eigenvalues of the free rotation mode of the multi-bladed rotor | |
| 14:45-15:00 | Li Hou, Pingchao Yu, and Cun Wang | Nanjing University of Aeronautics and Astronautics | Investigation on nonlinear behavior of a rotor system with friction effect due to end-face seal | |
| 15:00-15:15 | Ioannis Gavalas, Emmanouil Dimou, and Athanasios Chasalevris | National Technical University of Athens | Applying Central Manifold Theory in the Definition of Active Gas Foil Bearing Configurations for High-Speed Stability of Rotors | |
| 15:15-15:30 | Hui Li, Hongliang Yao, and Yangjun Wu | Northeastern University | A new type of inerter nonlinear energy sink using chiral metamaterials | |
| 15:30-15:45 | Hong Guan, Hui Ma, Xiaochi Qu, and Qian Xiong | Northeastern University | Dynamic Stress Analysis of Cracked Cantilever Plate: Experiment and Simulation | |
| 15:45-16:00 | Coffee Break | | | |

| Tuesday, September 19 16:00-17:30 | | Site: Meeting Room 6 (F2), Building 1 | | |
|---|---|---|--|------------------------|
| Oral Session: Active Components and Vibration Control | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 16:00-16:15 | Zhenping Li, Hongliang Yao, and Hui Li | China North Vehicle Research Institute | Application of Metamaterial in Vibration Suppression of Rotor System | Athanasios Chasalevris |
| 16:15-16:30 | Xinyu Gao, Yifan Bao, Zeliang Zhang, and Jianfei Yao | Beijing University of Chemical Technology | Active suppression of multi-frequency vibration of rotor based on adaptive immersion and invariant theory | |
| 16:30-16:45 | Harikrishnan Venugopal, Kevin Dekemele, and Mia Loccufier | Ghent University | Vibration Reduction In An Unbalanced Rotor System Using Nonlinear Energy Sinks With Varying Stiffness | |
| 16:45-17:00 | Rakesh Deore, Bipul Brahma, Shahrukh, and Karuna Kalita | Indian Institute of Technology | The Passive Vibration Control in Bridge Configured Winding Cage Rotor Induction Motor: An Experimental Analysis. | |
| 17:00-17:15 | Weijian Guo | Beijing SYTH Testing, Co., Ltd | Unbalance Measurement Traceability | |
| 17:15-17:30 | Haijun Zhang, Qin Yang, Wei Zhao, and Feilong Jiang | Jiaxing University | Study on Solution Algorithm of Reynolds Equation of Self-Acting Gas Journal Bearings Based on Finite Difference Method | |

Oral Session Day2: a.m.

| Wednesday, September 20 8:30-10:35 | | Site: Meeting Room 5 (F2), Building 1 | | |
|--------------------------------------|--|--|---|---------------|
| Oral Session: Bearings and Seals | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 8:30-9:00 | Weimin Wang | Beijing University of Chemical Technology | Damping of rotor bearing system: calculation, evaluation and control | Qinkai Han |
| 9:00-9:15 | Shenghao Tong, Ke Zhang, and Huaitao Shi | Shenyang Jianzhu University | Dynamic response and vibration suppression of cable parallel mechanisms under time-varying multi-directional fluid disturbance | |
| 9:15-9:30 | San Andres Luis, and Andy Alcantar | Texas A&M University | Effect of Flow Rate on the Performance of an Evacuated Tilting Pad Journal Bearing: Load on Pad vs. Load-Between-Pad Configurations | |
| 9:30-9:45 | Tao Li, Huaitao Shi, and Xiaotian Bai | Shenyang Jianzhu University | A twin model of performance degradation for rolling bearing with different scale fault evolution mechanism | |
| 9:45-10:00 | Yang Zhou, Jin Zhou, Jarir Mahfoud, Yue Zhang, and Yuanping Xu | Nanjing University of Aeronautics and Astronautics | Modeling and Validation of Rotor-Active Magnetic Bearing System Considering Interface Contact | |
| 10:00-10:15 | Xiang Zhang, Renwei Che, Yinghou Jiao, and Huzhi Du | Harbin Institute of Technology | Simulation study for hole diaphragm labyrinth seal at synchronous whirl frequency | |
| 10:15-10:35 | Coffee Break | | | |

| Wednesday, September 20 10:35-11:50 | | Site: Meeting Room 5 (F2), Building 1 | | |
|---------------------------------------|---|---|---|---------------|
| Oral Session: Bearings and Seals | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 10:35-10:50 | Benedikt Schüßler and Stephan Rinderknecht | Technical University of Darmstadt | High Speed Rotor Drop-Downs in Different Planetary Touch-Down Bearings Differing in the Number of Bearing Units | Weimin Wang |
| 10:50-11:05 | Huzhi Du, Yinghou Jiao, Xiang Zhang, and Renwei Che | Harbin Institute of Technology | Numerical investigation on leakage characteristics of a novel honeycomb seal with wall holes | |
| 11:05-11:20 | Liang Xuan, Ao Shen, Xiaochi He, Shuai Dong, and Jiaxin Dong | Jiangnan University | Simulation Analysis of Main Bearing Vibration Characteristics of Wind Turbine | |
| 11:20-11:35 | Emmanouil Dimou, Ioannis Gavalas, Fadi Dohnal, and Athanasios Chasalevris | National Technical University of Athens | Locating Period Doubling and Neimark-Sacker Bifurcations in Parametrically Excited Rotors on Active Gas Foil Bearings | |
| 11:35-11:50 | M. Yu. Temis and A. B. Meshcheryakov | Central Institute of Aviation Motors | Investigation of journal gas foil bearing characteristics with foils prestress from assembling taken into account | |

| Wednesday, September 20 8:30-10:35 | | Site: Meeting Room 6 (F2), Building 1 | | |
|--------------------------------------|--|--|---|----------------------------|
| Oral Session: Aero-Engines | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 8:30-9:00 | Chao Fu | Northwestern Polytechnical University | Uncertainty propagation in linear and nonlinear rotordynamics | Florian Tezenas du Montcel |
| 9:00-9:15 | Pingchao Yu, Zihan Jiang, Cun Wang, and Li Hou | Nanjing University of Aeronautics and Astronautics | Investigation on the transient lateral vibration of a flexible rotor system with substantial unbalance | |
| 9:15-9:30 | Yuqi Li, Zhimin Zhu, Zhong Luo, Chuanmei Wen, Lei Li, and Long Jin | Guangxi University of Science and Technology | Dynamic Behaviors of a Bolted Joint Rotor System Considering the Contact State at Mating Interface | |
| 9:30-9:45 | Cong Liu, Yongfeng Wang, Ruiqi Jia, and Jie Hong | Beihang University | Dynamic design of the high-speed rotor system considering the distribution of strain energy | |
| 9:45-10:00 | Jing Chang and Zhong Luo | Northeastern University | Computation of components system stiffness for variable stator vane mechanism | |
| 10:00-10:15 | Yuanhang Hou and Shuqian Cao | Tianjin University | Dynamics Analysis of Bending-Torsional Coupling Vibration Induced by Rub-impact Based on the MHB-AFT Method | |
| 10:15-10:35 | Coffee Break | | | |

| Wednesday, September 20 10:35-11:50 | | Site: Meeting Room 6 (F2), Building 1 | | |
|---------------------------------------|--|---------------------------------------|--|-----------------|
| Oral Session: Aero-Engines | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 10:30-10:50 | Cai Wang, Jing Tian, Yan-ting Ai, Feng-ling Zhang, Zhi Wang, and Ren-zhen Chen | Shenyang Aero-space University | Modeling and Simulation Analysis of Dual-rotor System in the Early Stage of Bearing Pedestal Looseness | Paolo Pennacchi |
| 10:50-11:05 | Jiewei Lin, Bin Wu, Xin Lu, Jian Xu, Junhong Zhang and Huwei Dai | Tianjin University | Numerical Simulation of Aero-engine Rotor-blade-coating Coupling System with Rub-impact Fault and its Dynamic Response | |
| 11:05-11:20 | Jie Fu, Chao Li, Jie Hong, and Yanhong Ma | Beihang University | Analysis and safety design of aero-engine rotor dynamic response with multiple loads due to Fan blade off | |
| 11:20-11:35 | Alexander A. Inozemtsev, Konstantin V. Shaposhnikov, Sergey A. Degtyarev, Mikhail K. Leontiev, and Ivan L. Gladkiy | Alfa-Tranzit Co., Ltd. | Investigation on Information Assessment for Vibration Sensor Locations Installed in Aero-engine Based on Unbalance Response Analysis | |
| 11:35-11:50 | Fangming Liu, Jie Hong, Yanhong Ma, and Xueqi Chen | Beihang University | Research on Robustness Analysis and Evaluation Method of Bearing-Support System | |

Oral Session Day2: p.m.

| Wednesday, September 20 14:00-16:00 | | Site: Meeting Room 5 (F2), Building 1 | | |
|---|--|--|---|---------------|
| Oral Session: Condition Monitoring, Fault Diagnostics and Prognostics | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 14:00-14:30 | Xiaowang Chen | University of Science and Technology Beijing | New schemes of motor electric signature analysis for rotating machinery fault diagnosis of electric drive-train | Tomasz Szolc |
| 14:30-14:45 | Chenghui Pan, Song Xue, Yinwei Zhang, Lihui Chen, Peiyuan Lian, Congsi Wang, Qian Xu, and Wulin Zhao | Xidian University | Bearing fault diagnosis using transfer learning with ICCEMDAN | |
| 14:45-15:00 | Shutin Denis, Maxim Bondarenko, Roman Polyakov, Ivan Stebakov and Leonid Savin | Orel State University | Prediction of Remaining Useful Life of Passive and Adjustable Fluid Film Bearings Using Physics-Based Models of Their Degradation | |
| 15:00-15:15 | Xinxin Dong, Zigang Li, Ling Hong, and Jun Jiang | Xi'an University of Science and Technology | Early Warning Signal Based on Global Dynamics for Instability Responses in Rotor/Stator Rubbing System | |
| 15:15-15:30 | Tao Liu, Laixing Li, and Yongbo Li | Northwestern Polytechnical University | Local maximum instantaneous extraction transform based on extended autocorrelation function for bearing fault diagnosis | |
| 15:30-15:45 | Mario Antunović, Sanjin Braut, Roberto Žigulić, Goranka Štimac Rončević, and Mario Lovrić | Ascalia Ltd | Rolling element bearing fault diagnosis using hybrid machine learning models | |
| 15:45-16:00 | Coffee Break | | | |

| Wednesday, September 20 16:00-17:30 Site: Meeting Room 5 (F2), Building 1 | | | | |
|---|---|---|---|---------------|
| Oral Session: Condition Monitoring, Fault Diagnostics and Prognostics | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 16:00-16:15 | Byul An, Yunseok Ha, Yeongdo Lee, Wonil Kwak, and Yongbok Lee | Korea Institute of Science and Technology | Investigation on Feature Attribution for Remaining Useful Life Prediction Model of Cryogenic Ball Bearing | Sanjin Braut |
| 16:15-16:30 | Tomasz Szolc, Robert Konowrocki, and Dominik Pisarski | Institute of Fundamental Technological Research of the Polish Academy of Sciences | Model Based Identification of the Measured Vibration Multi-Fault Diagnostic Signals Generated by a Large Rotating Machine | |
| 16:30-16:45 | Jianwen Wang, Hong Wang, Tian He, and Tao Qing | Beihang University | Identification method for cage rubbing faults of flywheel bearings based on Characteristic Frequency Ratio and convolutional neural network | |
| 16:45-17:00 | Hongxiang Jing, Guojin Feng, Long Chen, Hao Zhang, Dong Zhen, and Fengshou Gu | Hebei University of Technology | An Improved Transfer Path Model for the Vibration Characteristics Analysis of a Planetary Gear System | |
| 17:00-17:15 | Caizi Fan, Hui Ma, and Zeyu Ma | Northeastern University | A novel metric-based model with the ability of zero-shot learning for intelligent fault diagnosis | |
| 17:15-17:30 | Pantha Pradip Das, Rajiv Tiwari, and Dhruva Jyoti Bordoloi | Indian Institute of Technology Guwahati | Intelligent Fault Classification of a Misaligned Geared-Rotor Machine Equipped with Active Magnetic Bearings | |

| Wednesday, September 20 14:00-16:00 Site: Meeting Room 6 (F2), Building 1 | | | | |
|---|---|--------------------------------|--|---------------|
| Oral Session: Numerical and Analytical Methods in Nonlinear Rotordynamics | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 14:00-14:30 | Hui Ma | Northeastern University | Review on dynamic modeling and vibration characteristics of rotating cracked blades | Yeyin Xu |
| 14:30-14:45 | Yuan Wei, Xuhe Ran, Zhaobo Chen, and Yinghou Jiao | Shanghai University | Numerical analysis of seal force under brush seal hysteresis effect | |
| 14:45-15:00 | Runchao Zhao, Yeyin Xu, Zhitong Li, Zhaobo Chen, and Yinghou Jiao | Harbin Institute of Technology | Similarity Design and Behavior Prediction of Rotor Systems Subject to Non-uniform Preloads | |
| 15:00-15:15 | Sai Zhang, Xiuli Hu, Renwei Che, and Yinghou Jiao | Harbin Institute of technology | Dynamic Analysis of the Finger Seal-Rotor System | |
| 15:15-15:30 | Wenbo Ma, Yeyin Xu, Yinghou Jiao, and Zhaobo Chen | Xi'an Jiaotong University | Complex stable and unstable subharmonic vibrations of a nonlinear brush-seal rotor system | |
| 15:30-15:45 | Ning Chen and Shuqian Cao | Tianjin University | An Indirect Harmonic Balance Method for the Local-Nonlinearity Rotor Systems | |
| 15:45-16:00 | Coffee Break | | | |

| Wednesday, September 20 16:00-17:30 | | Site: Meeting Room 6 (F2), Building 1 | | |
|---------------------------------------|--|---|---|---------------|
| Oral Session: Bearings and Seals | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 16:00-16:15 | Luis San Andrés and Bryan Rodríguez | Texas A&M University | Dynamic Performance of an O-Ring Sealed Squeeze Film Damper and a Simple Way to Estimate the (Ingested) Gas Content in a Squeeze Film | Hui Ma |
| 16:15-16:30 | Shuai Gao, Lanyu Liu, and Qinkai Han | Tsinghua University | Dynamic Performance of Spacecraft Flywheel Ball Bearing with Different Type and Distribution of Cage Pocket Shape | |
| 16:30-16:45 | Bin Wei, Xiuli Hu, Renwei Che, and Yinghou Jiao | Harbin Institute of Technology | Numerical analysis of the effect of different surface textures on the steady state characteristics of tilting pad journal bearing | |
| 16:45-17:00 | Zhansheng Liu, Jinlei Qi, Xiangyu Yu, Bing Han, Yishun Yang and Jiaqi Wang | Harbin Institute of Technology | Effects of Relief Hole on the Static Characteristics of Externally Pressurized Steam-Lubricated Hybrid Journal-Thrust Bearing | |
| 17:00-17:15 | Kazakov Yuri, Yuri Kazakov, Ivan Stebakov, Denis Shutin, and Leonid Savin | Orel State University | Application of Machine Learning in Simulation Models and Optimal Controllers for Fluid Film Bearings | |
| 17:15-17:30 | Yunseok Ha, Yeongdo Lee, Byul An and Yongbok Lee | Korea Institute of Science and Technology | Experiment and CFD Analysis of Plain Seal, Labyrinth Seal and Floating Ring Seal on Leakage Performance | |

Oral Session Day3: a.m.

| Thursday, September 21 8:30-10:20 | | Site: Meeting Room 5 (F2), Building 1 | | |
|--|---|---------------------------------------|---|---------------|
| Oral Session: Torsional Vibrations and Geared Systems Dynamics | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 8:30-9:00 | Chao Liu | Tsinghua University | Numerical and experimental analysis on rod-fastened rotor dynamics | Zhipeng Feng |
| 9:00-9:15 | Jinxin Dou, Rui Xue, Hongliang Yao, Hui Li, and Jianlei Li | Northeastern University | Parametric Optimization of BNES in Torsional Vibration Suppression of Rotor Systems | |
| 9:15-9:30 | Guanghe Huo, Yinghou Jiao, Miguel Iglesias Santamaria, Xiang Zhang, Javier Sanchez-Espiga, Alfonso Fernandez-del-Rincon, and Fernando Viadero-Rueda | Harbin Institute of Technology | Torsional Vibration Modelling of a Two-stage Closed Differential Planetary Gear Train | |
| 9:30-9:45 | Ziyang Xu, Jing Wei, Haibo Wei, Zhirou Liu, Yujie Zhang, and Hao Lin | Chongqing University | Identification of high-speed gear traveling wave resonance based on phase space reconstruction method | |
| 9:45-10:00 | Timo P. Holopainen and Tommi Ryyppö | ABB Large Motors and Generators | New comprehensive approach for torsional analyses of industrial powertrains | |
| 10:00-10:20 | Coffee Break | | | |

| Thursday, September 21 10:20-11:35 | | Site: Meeting Room 5 (F2), Building 1 | | |
|---|---|---------------------------------------|---|---------------|
| Oral Session: Optimization of Rotor Systems | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 10:20-10:35 | Dafang Lin, Siji Wang, Chengyang Wang, Zhoudian Chen, Yuan Liu, and Jinqi Zhang | Northwestern Polytechnical University | Vibration Reduction Optimization Design of An Energy Storage Flywheel Rotor with ESDFD | Chao Liu |
| 10:35-10:50 | Minghong Jiang, Wengheng Li, Xianghong Gao, and Changsheng Zhu | Zhejiang University | Multi-objective Optimization of Active Dry Friction Damper-rotor Systems Based on Predictive Control | |
| 10:50-11:05 | Denis Shutin, Alexander Fetisov, and Leonid Savin | Orel State University | Optimization of Journal Bearings Considering Their Adjustable Design and Rotor Dynamics | |
| 11:05-11:20 | Yuchen An, Jing Liu, Chiye Yang, and Guang Pan | Northwestern Polytechnical University | Vibration characteristic Analysis and optimization of the propulsion shaft in the underwater vehicle | |
| 11:20-11:35 | Xiaomeng Tong | Beihang University | Smart Design of Turbomachinery Bearings and Morton Effect Driven by the Physics-based and Machine Learning Approach | |
| 11:35-11:50 | Closing Ceremony | | | Fulei Chu |

| Thursday, September 21 8:30-10:20 | | Site: Meeting Room 6 (F2), Building 1 | | |
|---|---|---|--|---------------|
| Oral Session: Uncertainties, Reliability and Life Predictions of Rotating Machinery | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 8:30-8:45 | Xiangyang Zhao, Guang Zhao, Yunbo Yuan, Fanrong Kuang, Mei Guo, and Haofan Li | Dalian University of Technology | Aviation spline wear test bench and fretting wear measurement | Tianyang Wang |
| 8:45-9:00 | Haobin Wen, Long Zhang, and Jyoti K. Sinha | The University of Manchester | Remaining Useful Life Prediction for Anti-friction Bearings Based on Envelope Spectrum and Extended Kalman Filter | |
| 9:00-9:15 | Weimin Wang, Jiale Wang, and Qihang Li | Beijing University of Chemical Technology | An unbalance identification method of a whole aero-engine based on the casing vibrations | |
| 9:15-9:30 | Ying Zhang, Yaguo Lei, Xin Wu, and Junyi Cao | Xi'an Jiaotong University | Self-Powered Wireless Condition Monitoring for Rotating Machinery | |
| 9:30-9:45 | Jintao Li, Zhaobo Chen, and Dong Yu | Harbin Institute Technology | Research on Rub-impact Fault Quantification of Rotor System Based on Effective Singular Value Noise Reduction and Minimum Mutual Entropy Principle | |
| 9:45-10:00 | Huangfu Yifan, Xingjian Dong, Kangkang Chen, and Zhike Peng | Shanghai Jiao Tong University | Fault tracing of geared rotor systems: An in-situ measurement-based transfer path analysis method | |
| 10:00-10:20 | Coffee Break | | | |

| Thursday, September 21 10:20-11:35 | | Site: Meeting Room 6 (F2), Building 1 | | |
|--------------------------------------|--|---------------------------------------|---|-----------------|
| Oral Session: Bearings and Seals | | | | |
| Time | Authors | Affiliation | Titles | Session Chair |
| 10:20-10:35 | Giota Goswami, Iikka Martikainen, Eerik Sikanen, Charles Nutakor, Janne Heikkinen, and Jussi Sopanen | Lappeenranta University of Technology | Modeling rotordynamic effects of angular contact ball bearing in X- and O-arrangements with full bearing matrix | Luis San Andrés |
| 10:35-10:50 | Gyan Ranjan, Juuso Narsakka, Tuhin Choudhury, and Jussi Sopanen | Lappeenranta University of Technology | Dropdown Analysis of High-Speed Thin-Shaft Coupled Rotor System Integrated with Three Active Magnetic Bearings | |
| 10:50-11:05 | Xueliang Lu, Luis San Andrés, and Bonjin Koo | Hunan SUND Technological Corporation | On the influence of the lubricant feed orifice size and end plate seals' clearance on the static and dynamic performance of integral squeeze film dampers | |
| 11:05-11:20 | Shogo Kimura, Tsuyoshi Inoue, Hiroo Taura, and Akira Heya | Nagoya University | Modeling of the Divergently Worn Annular Seal for the Two-Way Coupled Fluid-Structure Interaction Analysis of Shaft Vibration and Clearance Flow | |
| 11:20-11:35 | Mnaouar Chouchane and Faiza Sakly | University of Monastir | Vibration Control of Rotor Bearing Systems Using Electro and Magneto Rheological Elastomers | |

Useful Information

Registration

Official Registration Time

| Date | Registration Venue | Beijing Time |
|------------------------|--|---------------------|
| Sep 18, 2023 (Monday) | Main hall (F1), Building 5, Xijiao Hotel | 10:00 am - 10:00 pm |
| Sep 19, 2023 (Tuesday) | Main hall (F1), Building 5, Xijiao Hotel | 8:30 am - 12:00 am |

Best Paper Awards

The 11th IFTOMM International Conference on Rotordynamics will attribute Best Paper Awards to some outstanding conference papers of students at the closing ceremony of the conference.

On-site Contact Information

During the conference from Sep 18 to 21, the conference affairs group will be located in Room 5113, Building 5, Xijiao Hotel. If you encounter any problems or need assistance, Please call 01062322288 ext. 5113 or come to us directly in Room 5113, Building 5.