

The 9th Asia-Pacific International Symposium on Advanced Reliability and Maintenance Modeling (APARM 2020)

Virtual Meeting (August 20-23, 2020)

DRAFT FULL PROGRAM SCHEDULE (Dated August 8, 2020)

Beijing Time Zone (Asia)		Activities Planned					Mountain Standard Time (North America)	
Date	Time						Time	Date
Friday August 21	09:00-09:30	Conference Opening Ceremony: Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode)					19:00-19:30	Thursday August 20
	09:30-10:30	<b>Keynote Speech #1: Data-driven Crisis Management</b> Prof. Way Kuo (1 hour, 9:30am Hong Kong time) (Chair: Prof Min Xie) Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode)					19:30-20:30	
	10:30-11:30	<b>Keynote Speech #2: Reliability in the 21st Century</b> Prof. William Meeker (1hour, 9:30pm US Central Time) (Chair: Prof Min Xie) Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode)					20:30-21:30	
	11:30-11:40	Break					21:30-21:40	
	11:40-13:00	Invited Session#7: Models and applications in network reliability (Session Chairs: Yi-Kuei Lin, Chun-Min Yu) Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode) (4 papers)	Invited Session #3: Degradation analysis and remaining useful life prediction of components in aircraft utility systems (Session Chairs: Shaoping Wang, Chao Zhang) Zoom Meeting Link: <a href="https://zoom.us/j/99793633698">https://zoom.us/j/99793633698</a> (See email for passcode) (4 papers)	Regular Sessions #9: Random process (Session Chairs: Richard Arnold; Stefanka Chukova) Zoom Meeting Link: <a href="https://zoom.us/j/95536125725">https://zoom.us/j/95536125725</a> (See email for passcode) (4 papers)	Regular Sessions #4: Machine health management (Session Chairs: Chao Liu, Yifan Zhou) VooV Meeting Link: <a href="https://meeting.tencent.com/s/Ru0AFmOz2akB">https://meeting.tencent.com/s/Ru0AFmOz2akB</a> (See email for passcode) (4 papers)	Regular Sessions #12: Transfer learning (Session Chairs: Xiaoping Zhao, Wentao Mao) VooV Meeting Link: <a href="https://meeting.tencent.com/s/PE719zMS5SWW">https://meeting.tencent.com/s/PE719zMS5SWW</a> (See email for passcode) (4 papers)	21:40-23:00	
	11:40-13:00	1570629167: Methodology for Integrating Conventional and Network Reliability Evaluation (Cheng-Hao Huang; Ping-Chen Chang; Yi-Kuei Lin) 1570630469: Reliability Applications on Business Management (Shin-Guang Chen) 1570638346: Reliability Analysis for Multi-state Projects by Decomposition Subsets (Yi-Hao Chiu; Cheng-Fu Huang; Yi-Kuei Lin; Ding-Hsiang Huang) 1570658194: Lifetime Performance Evaluation and Analysis Model of Passive Component Capacitor Products (Kuen-Suan Chen; Chun-Min Yu)	1570637825: Modeling and Optimization of Comb Electrodes Capacitive Three-Dimensional Force Tactile Sensor (Jian Tie; Shaoping Wang; Chao Zhang; Jian Shi) 1570638048: An Adaptive Control Method for Electro-hydrostatic Actuator Based on Virtual Decomposition Control (Youhao Shen; Xingjian Wang; Shaoping Wang; Jouni Mattila) 1570638168: Fault diagnosis of hydraulic actuator based on improved convolutional neural network (Liwei Zhao; Shaoping Wang; Jian Shi; Chao Zhang) 1570638239: A Multi-source Information Fusion Fault Diagnosis Method for Vectoring Nozzle Control System Based on Bayesian Network (Youyou Zhang; Jian Shi; Shaoping Wang; Zhang Yang)	1570619366: Mean and Variance of an Alternating Geometric Process (Richard Arnold; Stefanka Chukova; Yu Hayakawa; Sarah Marshall) 1570630063: A Bias-Corrected Kaplan-Meier Estimator (Renyan Jiang) 1570635760: Remaining Useful Life Estimation Based on Wiener Degradation Process With Mixed Random Effects (Fengjun Duan; Guanjun Wang; Wanneng Wei) 1570638403: Nonparametric Bayesian Analysis of Hazard Rate Functions using the Gamma Process Prior (Richard Arnold; Stefanka Chukova; Yu Hayakawa)	1570630478: A Decision-Support Model to Select Forming Principle of Part for Sustainable Manufacturing (Peipei Zhang) 1570637846: Risk Assessment of Worn-out Failure of Transport Aircraft based on Monte Carlo Simulation (Ziwen Zhang; Lei Huang; Zhong Lu) 1570638276: Normal behavior of single-asperity contact of bcc iron: a molecular dynamics simulation study (Wenzhen Xie; Chao Liu; Dongxiang Jiang) 1570638475: Research on the layout of spare parts warehouse network based on wind power industry (Bin Yan; Yifan Zhou)	1570632348: Virtual Rotating Speed Meter: Extracting Machinery Rotating Speed from Vibration Signals Based on Deep Learning and Transfer Learning (Meng Rao; Qing Li; Dongdong Wei; Ming Jian Zuo) 1570635911: Composite Fault Diagnosis Based on Deep Convolutional Generative Adversarial Network (Yonghong Zhang; Zhongyang Zhang; Fan Shao; Yifei Wang; Xiaoping Zhao; Kaiyang Lv) 1570638199: Adversarial Domain Adaptation for Gear Crack Level Classification Under Variable Load (Dongdong Wei; Te Han; Fulei Chu; Ming Jian Zuo) 1570638594: Transferable Health Indicator of Rolling Bearings: A New Solution for Cross-Working Condition Monitoring of Degradation Process (Jiaxian Chen; Wentao Mao; Yuejian Chen)	23:00-07:00	
	13:00-21:00	Break					23:00-07:00	

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<p>Friday August 21</p>	<p>21:00-23:00</p>	<p><b>Invited Session #1: Advanced reliability and safety management techniques in rail transits</b> (Session Chairs: Yong Qin, Limin Jia) Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode) (6 papers)</p>	<p><b>Invited Session #6: Life analysis with deterioration with field applications</b> (Session Chairs: Jin Lu, Qingpei Hu) Zoom Meeting Link: <a href="https://zoom.us/j/99793633698">https://zoom.us/j/99793633698</a>(See email for passcode) (6 papers)</p>	<p><b>Invited Session #5: Dynamic reliability analysis of complex structural and mechanical systems</b> (Session Chairs: Xihui Liang, Sajad Afshari) Zoom Meeting Link: <a href="https://zoom.us/j/95536125725">https://zoom.us/j/95536125725</a> (See email for passcode) (6 papers)</p>	<p><b>Regular Sessions #7: Nonstationary signal processing</b> (Session Chairs: Tian-Ran Lin, Zhipeng Feng) Voov Meeting Link: <a href="https://meeting.tencent.com/s/Ru0AFmOz2akB">https://meeting.tencent.com/s/Ru0AFmOz2akB</a> (See email for passcode) (6 papers)</p>	<p><b>Regular Sessions #6: General</b> (Session Chairs: Shaomin Wu, Wei Guo) Voov Meeting Link: <a href="https://meeting.tencent.com/s/PE719zMS5S5W">https://meeting.tencent.com/s/PE719zMS5S5W</a> (See email for passcode) (6 papers)</p>	<p>07:00-09:00</p>	<p>Friday August 21</p>
		<p>1570629514: A Sparse FP-VAR Model for Representing Multichannel Non-Stationary Baseline Vibration Signals from a Gearbox (Yuejian Chen; Qing Li; Dongdong Wei; Ming Jian Zuo)</p> <p>1570633646: An Optimal Band-pass Filter based on Adaptive Identification of Bearing Resonant Frequency Band (Wei Guo)</p> <p>1570634478: Fault Feature Extraction based on Cyclic Correntropy for Train Axle Bearings in Impulsive Noise (Xuejun Zhao; Yong Qin; Limin Jia; Zhiliang Liu)</p> <p>1570635433: An Intelligence Fault Diagnosis Approach for Rolling Bearings Based on Non-local Convolutional Neural Network (Haoran Han; Huan Wang; Zhiliang Liu; Yijia Hao)</p> <p>1570636703: Multi-Scale CNN based on Attention Mechanism for Rolling Bearing Fault Diagnosis (Yijia Hao; Huan Wang; Zhiliang Liu; Haoran Han)</p> <p>1570638413: Vibration Features of High-speed Train Gearbox Induced by Bearing Fault (Jiufeng Cai; Yifan Li; Jianxin Liu)</p>	<p>1570638603: Exponential Superimposed Renewal Processes (Watalu Yamamoto)</p> <p>1570638567: Threshold Type Maintenance Policies for Systems Under Cumulative Damage From Random Shocks (Jin Lu; Shoma Matoba)</p> <p>1570630354: Statistical Analysis and Correlation Study of Tool Wear in NC Machining (Peipei Zhang)</p> <p>1570638916: Statistical Inference for Lifetime Delayed Degradation Process with Gamma Process (Zan Li; Qingpei Hu; Dan Yu)</p> <p>1570638971: Wiener processes with random initial degradation values for step-stress accelerated degradation tests data (Chengjie Wang; Qingpei Hu; Dan Yu)</p> <p>1570653467: Asset life assessment by utilizing Weibull analysis with application on tank bottom components (Saif Eldin Mohamed Youssef)</p>	<p>1570617298: The simulation and dynamic reliability estimation of multiple-crack system (Shan Jiang; Yan-Fu Li)</p> <p>1570619815: Dynamic Modeling of a Planetary Gearbox with Sun Gear Crack and Bearing Clearance (Xianhua Chen; Xingkai Yang; Ming Jian Zuo; Zhigang (Will) Tian)</p> <p>1570629937: A Novel Nonlinear Analysis Tool: Multi-scale Symbolic Sample Entropy and Its Application in Condition Monitoring of Rotary Machinery (Shun Wang; Yongbo Li)</p> <p>1570632145: Analysis and Evaluation of Dynamic Reliability for Mechanical Structures Considering Mixed Uncertain Parameters (Xueguang Yu; Xintian Liu; Jiachi Tong; Xu Wang; Xiaolan Wang)</p> <p>1570632406: Approximate Reliability Analysis for New Generation Avionics Network (Lin Guo; Xiaodong Wang; Zhuqing Wang; Shuang Zhang; Yangming Guo)</p> <p>1570637790: Time-dependent Reliability Analysis of a Nonrepairable Multifunctional System Containing Multifunctional Components (Jiangbin Zhao; Shubin Si; Zhiqiang Cai; Haitao Liao)</p>	<p>1570629287: Normalization of Gearbox Vibration Signal for Tracking Tooth Crack Severity Progression Under Time-Varying Operating Conditions (Xingkai Yang; Ming Jian Zuo; Zhigang (Will) Tian)</p> <p>1570638321: Varying Speed Bearing Fault Diagnosis Based on Synchroextracting Transform and Deep Residual Network (Jie Shang; Tian Ran Lin)</p> <p>1570630226: A Computed Order Tracking and Holospectrum Based Pattern Recognition Method to Rotor Fault Detection Under Fluctuated Rotational Speed Condition (Changjie Yue; KeSheng Wang)</p> <p>1570638108: Bearing health condition monitoring under time-varying speeds based on linear transform with adaptively matching chirp-rates (Zehui Hua; Juanjuan Shi; Xingxing Jiang; Zhongkui Zhu)</p> <p>1570638147: Fault Diagnosis of Planetary Gearbox under Nonstationary Conditions Based on the Velocity Synchronous Chirplet Transform (Yunpeng Guan; Zhipeng Feng)</p> <p>1570638540: Synchrosqueezing transform based general linear chirplet transform of instantaneous rotational frequency estimation for rotating machines with speed variations (Yi Liu; Zhansi Jiang; Gang Wang; Jiawei Xiang)</p>	<p>1570637445: A Segmented CRC-Aided PSS-SS-SCL Algorithm for Polar Codes (Jianping Li; Huanhuan Liu)</p> <p>1570638528: A new switching model for sampling plan based on process yield (Shih-Wen Liu; Chien Wei Wu)</p> <p>1570638534: Developing a Variables Modified Chain Sampling Plan with Taguchi Capability Index (Zih-Huei Wang; Chien-Wei Wu; Wei-Ren Lin)</p> <p>1570638624: A Creep Model For Pressure Sensitive Adhesives Under Shear Load (Abhishik Deshpande; Zhichao Song; Swanand Vaidya)</p> <p>1570638664: On the Coverage Probability of Bias-Corrected Confidence Bounds (Tamer Tevetoglu; Bernd Bertsche)</p> <p>1570635572: Machine learning approaches in reliability and maintenance (Shaomin Wu; Di Wu; Rui Peng)</p>		
<p>Saturday August 22</p>	<p>08:00-9:00</p>	<p><b>Keynote Speech #3: An Analytic Tool Box for Optimizing CBM Decisions</b> EProf. Andrew Jardine (1hour, 8:00pm Eastern Time) (Chair: Prof. Tadashi Dohi) Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode)</p>					<p>18:00-19:00</p>	
	<p>9:00-10:00</p>	<p><b>Keynote Speech #4: Condition Monitoring and Fault Diagnosis of Technical Processes for Reliability Enhancement with Applications to Nuclear Power Plants</b> Prof. Jing Jiang (1hour, 9:00pm Eastern Time) (Chair: Prof. Tadashi Dohi) Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode)</p>					<p>19:00-20:00</p>	

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10:00-10:10		Break				20:00-20:10	
Saturday August 22	<p><b>Regular Sessions #10: Rotating machinery diagnostics</b> (Session Chairs: Guoliang Lu, Zhigang (Will) Tian) Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode) (6 papers)</p>	<p><b>Invited Session #10: Reliability Modelling and optimal configuration of complex systems</b> (Session Chairs: Taotao Zhou, Rui Peng) Zoom Meeting Link: <a href="https://zoom.us/j/99793633698">https://zoom.us/j/99793633698</a> (See email for passcode) (6 papers)</p>	<p><b>Regular Sessions #2: Asset reliability analysis</b> (Session Chairs: Zhiqiang Cai, Yisha Xiang) Zoom Meeting Link: <a href="https://zoom.us/j/95536125725">https://zoom.us/j/95536125725</a> (See email for passcode) (6 papers)</p>	<p><b>Regular Sessions #3: Degradation analysis</b> (Session Chair: Tieling Zhang, Zhiliang Liu) VooV Meeting Link: <a href="https://meeting.tencent.com/s/Ru0AFmOz2akB">https://meeting.tencent.com/s/Ru0AFmOz2akB</a> (See email for passcode) (6 papers)</p>	<p><b>Regular Sessions #1: Advanced machine learning techniques</b> (Session Chairs: KeSheng Wang, Feng Guo) VooV Meeting Link: <a href="https://meeting.tencent.com/s/PE719zMSSSWW">https://meeting.tencent.com/s/PE719zMSSSWW</a> (See email for passcode) (6 papers)</p>		
	<p>1570629520: Use of Autoregressive Conditional Heteroskedasticity Model to Assess Gear Tooth Surface Roughness (Yuejian Chen; Ke Feng; Robert Randall; Pietro Borghesani; Ming Jian Zuo)</p> <p>1570630348: Hierarchical Graph Model Based Approach for Change Detection in Bearing Degradation Process (Shaohua Yang; Zhenjie Zhu; Guoliang LU)</p> <p>1570629517: Study on A Special Category of FM Signals with Applications to Planetary Gearbox Fault Diagnosis Under Non-stationary Conditions (Peng Zhou; Zhike Peng; Zhigang (Will) Tian; Ming Jian Zuo)</p> <p>1570638414: Dynamic Modeling of Spur Gear with Spalling Fault Considering Manufacture Pitch Error (Qiuyuan Chen; Liming Wang; Yimin Shao; Xiaoxi Ding; Guorong Long)</p> <p>1570638698: Vibration mechanism of gear system with angular misalignment error based on an improved meshing stiffness calculation method (Guorong Long; Liming Wang; Yimin Shao; Qiuyuan Chen)</p> <p>1570638888: A Fault Feature Extraction Method for Rolling Bearing Based on Intrinsic Time-Scale Decomposition and AR Minimum Entropy Decomposition (Jiakai Ding; Dongming Xiao; Liangpei Huang)</p>	<p>1570616305: Imperfect Maintenance Scheduling for High Pressure Feedwater Heater System in Nuclear Power Plant (Mengyu Du; Chen Zhang; Taotao Zhou; Yan-Fu Li)</p> <p>1570616316: Degradation Assessment and Remaining Useful Life Prognostics of Centrifugal Pump Using Multi-Sensor Process Monitoring (Taotao Zhou; Yan-Fu Li)</p> <p>1570616416: Prediction of Software Fault Detection and Correction Processes with Time Series Analysis (Rui Peng; Yingchun Li; Kaiye Gao; Ye Ma)</p> <p>1570619603: Cascading Failures of Overload Behaviors on Interdependent Networks (Ziyang Jin; Ning Wang; Jiao Zhao)</p> <p>1570632017: Modelling of Inspection Cycles for Power Distribution Transformers (Sathishkumar Nachimuthu; Ming Jian Zuo; Stephen Seewald; Jebb Richard; Connor Thicke)</p> <p>1570637687: Research on the Technology to Build Safety Integration Model of Complex System Based on Relevant Failure (Nie Guojian; Hongqi Yang; Yong Pan; Yujie Liu; Zhe Lai)</p>	<p>1570625528: Positioning Accuracy and Reliability Analysis of Rigid-Flexible Coupling Model of Six-DOF Manipulator (Jianmin Li)</p> <p>1570638223: Reliability assessment of corroded pipeline considering multiple defects interaction based on an artificial neural network method (Han Zhang; Zhigang (Will) Tian)</p> <p>1570638480: Lindley Type Distributions and Software Reliability Assessment (Qi Xiao; Tadashi Dohi; Hiroyuki Okamura)</p> <p>1570638484: Reliability Analysis of Manufacturing Machine with Degradation and Low-quality Feedstocks (Zhenggang Ye; Zhiqiang Cai; Hui Yang)</p> <p>1570638486: Reliability Analysis of Position Accuracy of Welding Robot (Wenxue Qian; Shuai Song; Changhui Yao; Xiaowei Yin)</p> <p>1570638621: Reliability Analysis of Vacuum Circuit Breakers with Multiple Failure Modes (Will C Wascom; Yisha Xiang)</p>	<p>1570629644: Quantitative Method of Health State Assessment Inside the Safe Region (Yuhua Yin; Zhiliang Liu; Zhe Cheng)</p> <p>1570634162: A Review of State-of-health Estimation of Lithium-ion Batteries: Experiments and Data (Ruomei Zhou; Shasha Fu; Weiwen Peng)</p> <p>1570634563: A Particle-Filter-Based Online Method for Degradation Analysis with Exponential Dispersion Process (Ricong Huang; Weiwen Peng)</p> <p>1570636187: Bayesian-based Method for the Remaining useful life and reliability prediction of steel structure (Teng Wang; Zheng Liu; Xiaoli Zhao; Min Liao; Nezhir Mrad)</p> <p>1570638363: Life prediction for the tractor of an elevator based on the sliding displacement (Yimin Wei; Jun Pan; Tong Li; Meide Wang; Bin Feng; Yonglei Dai)</p> <p>1570660464: Energy Pipeline Degradation Modeling (Wenxu Li; Tieling Zhang; Richard Dwight)</p>	<p>1570622900: Aero-engine Life Limit Parts Replacement Policy Optimization: Reinforcement Learning Method (Lin Lin; Jie Liu; Jinshan Liu; Shisheng Zhong; Feng Guo)</p> <p>1570630155: A Study on the Different SNR Levels to the Accuracy of the De-noising Convolutional Auto Encoder and Convolutional Neural Network in Fault Diagnosis of Planetary Gearbox (Ruiyuan Wang; KeSheng Wang)</p> <p>1570631622: A Novel Anomaly Detection Method for Gas Turbines Using Weight Agnostic Neural Network Search (Shisheng Zhong; Dan Liu; Lin Lin; Minghang Zhao; Xuyun Fu; Feng Guo)</p> <p>1570638393: Bearing Fault Diagnosis Based on Extreme Machine Learning Optimized by Differential Evolution (Yongtao Hu; Jinfeng Gao; Qiang Zhou; Xiaoyu Chen)</p> <p>1570638409: A two-stage algorithm of railway sleeper crack detection based on edge detection and CNN (Gang Wang; Yi Liu; Jiawei Xiang)</p> <p>1570638688: Unsupervised Fault Diagnosis of Machine via Multiple-Order Graphical Deep Extreme Learning Machine (Xiaoli Zhao; Zheng Liu; Teng Wang; Junchi Bin; Minping Jia)</p>	20:10-20:30	Friday August 21
13:00-21:00		Break				23:00-07:00	
21:00-22:00	<p><b>Tutorial: Building Multicriteria Decision Models for Risk, Reliability, and Maintenance Decision Analysis</b> Prof. Cristiano Cavalcante and Alexandre Alberti 1 hour (10-11am Brazil Time) Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode)</p>		<p>Reserved slot Zoom Meeting Link: <a href="https://zoom.us/j/99793633698">https://zoom.us/j/99793633698</a> (See email for passcode)</p>			07:00-08:00	Saturday August 22
22:00-23:00	<p><b>Tutorial: History of System Reliability Optimization</b> Prof. David Coit 1 hour (10-11am Eastern Time) Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode)</p>		<p><b>Tutorial: Machine Learning in Data-Driven Prognostics and Health Management (PHM) for condition-based and predictive maintenance</b> Prof. Enrico Zio 1 hour (4-5pm Italy Time) Zoom Meeting Link: <a href="https://zoom.us/j/99793633698">https://zoom.us/j/99793633698</a> (See email for passcode)</p>			08:00-09:00	

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08:00-9:00	<b>Tutorial: Mechanical Applications of Cepstrum Analysis in Machine and Structural Health Monitoring</b> <b>Prof. Robert Randall 1 hour (10-11am Sydney Time)</b> Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode)			<b>Tutorial: Design a Practical and Effective Reliability Test</b> <b>Dr. Harry Guo 1 hour (8-9pm Eastern Time)</b> Zoom Meeting Link: <a href="https://zoom.us/j/99793633698">https://zoom.us/j/99793633698</a> (See email for passcode)		18:00-19:00
	<b>Tutorial: Past, Present and Future Directions and Advances in Reliability</b> <b>Prof. Kailash Kapur 1 hour (6-7pm Pacific Time)</b> Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode)			<b>Panel: Autonomous Vehicles</b> <b>Prof. Eric Wong 1 hour (8-9am Central Time)</b> Zoom Meeting Link: <a href="https://zoom.us/j/99793633698">https://zoom.us/j/99793633698</a> (See email for passcode)		19:00-20:00
<b>Break</b>						
10:00-10:10						20:00-20:10
10:10-11:30	Invited Session #8.1: New models and approaches for the reliability & quality (Session Chairs: Hisashi Yamamoto, Xufeng Zhao) Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode) (4 papers)	Invited Session #12.1: System reliability and maintenance modeling (Session Chairs: Zhigang Tian, Tingdan Jin) Zoom Meeting Link: <a href="https://zoom.us/j/99793633698">https://zoom.us/j/99793633698</a> (See email for passcode) (4 papers)	Regular Session #11.1: Maintenance strategy (Session Chairs: Alexandre Ramalho Alberti, Jak-Hak Lim) Zoom Meeting Link: <a href="https://zoom.us/j/95536125725">https://zoom.us/j/95536125725</a> (See email for passcode) (4 papers)	Invited Session #9.1: Reliability data analysis and decision making (Session Chairs: Rui Peng, Chi Zhang) Voov Meeting Link: <a href="https://meeting.tencent.com/s/Ru0AFmOz2akB">https://meeting.tencent.com/s/Ru0AFmOz2akB</a> (See email for passcode) (4 papers)	Regular Session #5.1: Fundamental reliability analysis theory (Session Chairs: Liyang Xie, GuanJun Wang) Voov Meeting Link: <a href="https://meeting.tencent.com/s/PE719zMSSSWW">https://meeting.tencent.com/s/PE719zMSSSWW</a> (See email for passcode) (4 papers)	20:10-21:30
	1570636867: Periodic and Sequential Inspection Policies with Mission Failure Probabilities (Xufeng Zhao; Xujie Jia; Mingchih Chen; Cunhua Qian; Toshio Nakagawa)	1570638385: Joint optimization of maintenance and production scheduling for unrelated parallel-machine system (Mageded Ghaleb; Sharareh Taghipour; Hossein Zolfagharinia)	1570638711: An Alternative Maintenance Policy for Protection Systems Subject to Shocks Due to Demands (Alexandre Ramalho Alberti; Cristiano Alexandre Virginio Cavalcante)	1570625390: Maintenance of a System with Increasing Energy Consumption Rate (Di Wu; Rui Peng; Ye Ma; Li Yang)	1570627261: On Two New Quantum Lifetime Distributions (Kunsong Lin; Jiaxiao Zhu; Yunxia Chen)	
	1570636883: Algorithm for Finding the Optimal Arrangement of Consecutive-k-out-of-n:F Systems with Multiple Types of Components (Taishin Nakamura; Sawa Murata; Hisashi Yamamoto)	1570626355: Variance of Reliability Estimate for K Out-Of-N System with Cold Standby Units (Tingdan Jin; Jose Espiritu; Heidi Taboada)	1570633011: Assessment of Maintenance Effectiveness for Repairable Systems: PM and CM Case Studies (Syamsundar Annamraju; V. N. Achutha Naikan)	1570634148: Reliability of dynamic k-out-of-n systems with coupling components in power transmission systems (Heping Jia; Yi Ding; Liudong Xing; Dunnan Liu)	1570635750: A sample truncation rule for product reliability estimation with multiple censoring data (Liyang Xie; Ningxiang Wu)	
	1570637287: A Simulation Study on Resilience of Systems with Simultaneous Failures (Tetsushi Yuge)	1570638640: Maintenance Decision Making using State Dependent Markov Analysis with Failure Couplings (Xinyang Liu; Pingfeng Wang)	1570636624: Expected Maintenance Actions for Imperfect Production Processes Using a Markovian Approach (Wael I. Al Hajailan; David He)	1570638468: Integrating Protection, Restoration, and Flow Redistribution for Building Resilient Networked Critical Infrastructures (Huaxing Zhu; Su Wu; Chi Zhang; Raúl Monroy; Jose Ramirez-Marquez)	1570636699: Reliability analysis for competing failure processes with mutual dependence of system under the cumulative shock (Lina Bian; GuanJun Wang)	
1570637603: A Study on Evaluation of Stability in Process Mean Using Bayesian Updating (Yasuhiko Takemoto; Ikuo Arizono)	1570638712: Optimal Maintenance Policies for degrading hydrocarbon pipelines using Markov Decision Process (Yisha Xiang; Eric Bediako; Suzan Alaswad; Zhigang (Will) Tian)	1570638032: Optimal Post-Warranty Maintenance Strategy For The Second-Hand Product (Jak-Hak Lim; Dae Kyung Kim; Dong Ho Park)	1570631732: A New Compound Negative Binomial Distribution and Its Applications in Reliability (Xiaoyue Wang; Xian Zhao; Jinglei Sun)	1570637284: Reliability evaluation based on historical batch information (Wenda Kang; Houbao Xu; Huiling Zheng)		
<b>Break</b>						
11:30-11:40						21:30-21:40
11:40-13:00	Invited Session #8.2: New models and approaches for the reliability & quality (Session Chairs: Tomoaki Akiba, Xufeng Zhao) Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode) (4 papers)	Invited Session #12.2: System reliability and maintenance modeling (Session Chair: Yisha Xiang, Yu Liu) Zoom Meeting Link: <a href="https://zoom.us/j/99793633698">https://zoom.us/j/99793633698</a> (See email for passcode) (4 papers)	Regular Session #11.2: Maintenance strategy (Session Chairs: Nobuyuki Tamura, Guangyu Chen) Zoom Meeting Link: <a href="https://zoom.us/j/95536125725">https://zoom.us/j/95536125725</a> (See email for passcode) (4 papers)	Invited Session #9.2: Reliability data analysis and decision making (Session Chairs: Shaomin Wu, Liyang Xie) Voov Meeting Link: <a href="https://meeting.tencent.com/s/Ru0AFmOz2akB">https://meeting.tencent.com/s/Ru0AFmOz2akB</a> (See email for passcode) (3 papers)	Regular Session #5.2: Fundamental reliability analysis theory (Session Chairs: Xiaoyang Li, Ning-cong Xiao) Voov Meeting Link: <a href="https://meeting.tencent.com/s/PE719zMSSSWW">https://meeting.tencent.com/s/PE719zMSSSWW</a> (See email for passcode) (3 papers)	21:40-23:00
	1570637810: Optimization Problems for Consecutive-k-out-of-n:F Systems with Exchangeable Components (Lei Zhou; Hisashi Yamamoto; Xiao Xiao)	1570624408: A Multi-State k-out-of-n:F Balanced System with a Rebalancing Mechanism (Siqi Wang; Xian Zhao; Ming Jian Zuo)	1570638730: Structure of an optimal maintenance policy for a Semi-Markovian deteriorating system with major and minor failures (Nobuyuki Tamura)	1570635755: A Knowledge Synthesis Method for Weibull Distribution Estimation with Four Right-Censored Life Data (Liyang Xie; Jungang Ren)	1570637314: Adaptive sampling with neural networks for system reliability analysis (Ning-cong Xiao; Hongyou Zhan; Kai Yuan)	
	1570639951: Factor copula modeling of coherent systems with dependent components (Shuhei Ota; Mitsuhiro Kimura)	1570629310: Optimal Maintenance Strategy for Second-Hand Product Considering Preventive Maintenance Actions (Minjae Park; Ki Mun Jung; Dong Ho Park)	1570638765: Preventive maintenance optimization for large-scale systems under life cycle cost (Ruiqi Wang; Guangyu Chen; Na Liang)	1570635756: Reliability of a Star Configuration Power Grid System with Performance Sharing (Peng Su; GuanJun Wang)	1570638260: Belief Reliability Evaluation with Limited Time-to-Failure Data under Uncertain Right Censoring (Wenbin Chen; Xiaoyang Li; Fangrong Li; Rui Kang)	
	1570639996: Random Replacement Policies for Two Failure Modes (Satoshi Mizutani; Xufeng Zhao; Toshio Nakagawa)	1570637650: Maintenance Optimization of Multi-State Systems with Single Maintenance Capacity and Arbitrarily Distributed Maintenance Time (Yiming Chen; Tao Jiang; Yu Liu)	1570638343: Predictive maintenance framework of the aircraft system based on PHM information (Hongsheng Yan; Hongfu Zuo; Jianqi Tang; Ronghui Wang; Xiaojun Ma)	1570637371: Bayesian Based Data Analysis Method for Reliability Prediction of Electronics (Zheng Lixiang; Yu Di; Nie Guojian; Yang Yun; Lei Ting; Liu Yuke)	1570638275: An effective Kriging-based Approach for System Reliability Analysis with Multiple Failure Modes (Chengning Zhou; Ning-cong Xiao; Ming Jian Zuo; Wei Gao; Qing Li)	
1570640996: Bi-objective Optimization of Network Reliability by Genetic Algorithm (Natsumi Takahashi; Tomoaki Akiba; Hisashi Yamamoto; Shao-Chin Sung)	1570637698: Reliability analysis for competitive failure processes with multi-state degradation (Aiping Jiang; Leqing Huang; Yisha Xiang)	1570638440: Maintenance task scheduling of wind turbine based on task priority (Longfei Wang)				

Sunday  
August 23

Saturday  
August 22

The 9th Asia-Pacific International Symposium on Advanced Reliability and Maintenance Modeling (APARM 2020)

Virtual Meeting (August 20-23, 2020)

DRAFT FULL PROGRAM SCHEDULE (Dated August 8, 2020)

		Break				23:00-07:00		
Sunday August 23	13:00-21:00	<p><b>Invited Session #2: Decision support systems for improving the construction and maintenance of wind farm projects</b> (Session Chairs: Aminah Rayek, Nima Seresht) Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode) (4 papers)</p>	<p><b>Invited Session #11: Reliability tests and data analysis</b> (Session Chairs: Tao Yuan, Zhisheng Ye) Zoom Meeting Link: <a href="https://zoom.us/j/99793633698">https://zoom.us/j/99793633698</a> (See email for passcode) (4 papers)</p>	<p><b>Regular Sessions #8: Optimization</b> (Session Chairs: Zhe-George Zhang, Hiroyuki Okamura) Zoom Meeting Link: <a href="https://zoom.us/j/95536125725">https://zoom.us/j/95536125725</a> (See email for passcode) (4 papers)</p>	<p><b>Regular Sessions #11: Stability analysis</b> (Session Chairs: Tadashi Dohi, Zhiyuan Wang) Voov Meeting Link: <a href="https://meeting.tencent.com/s/Ru0AFmOz2akB">https://meeting.tencent.com/s/Ru0AFmOz2akB</a> (See email for passcode) (4 papers)</p>	<p><b>Invited Session #4: Degradation Modeling and Inference</b> (Session Chairs: Suk Joo Bae, Guanghan Bai) Voov Meeting Link: <a href="https://meeting.tencent.com/s/PE719zMSSSWW">https://meeting.tencent.com/s/PE719zMSSSWW</a> (See email for passcode) (4 papers)</p>		
	21:00-23:00	<p>1570636632: Simulation-based approach for risk assessment in onshore wind farm construction projects (<b>Emad Mohamed; Nima Gerami Seresht; Stephen Hague; Simaan AbouRizk</b>)</p> <p>1570636642: Framework for Risk Identification of Renewable Energy Projects Using Fuzzy Case-Based Reasoning (<b>Sahand Somi; Nima Gerami Seresht; Aminah Robinson Fayek</b>)</p> <p>1570629844: Wind Turbine Power Output Estimation with Probabilistic Power Curves (<b>Siyun Ge; Ming Jian Zuo; Zhigang (Will) Tian</b>)</p> <p>1570638655: A PdM framework Through the Event-based Genomics of Machine Breakdown (<b>Morad Danishvar; Alireza Mousavi; Veerendra C. Angadi</b>)</p>	<p>1570621081: Planning Accelerated Destructive Degradation Test with Block Effects (<b>Jiaxiang Cai; Zhisheng Ye</b>)</p> <p>1570638378: Remaining useful life prediction using machine learning (<b>Xiaoyan Zhu; Ping Zhang; Min Xie</b>)</p> <p>1570638397: A Differential Burn-in Policy Considering Nonhomogeneous Distribution of Spatial Defects in Semiconductor Manufacturing (<b>Tao Yuan</b>)</p> <p>1570635836: A Bayesian Model Averaging Method for Software Reliability Assessment (<b>Qiumin Yu; Steven Li</b>)</p>	<p>1570633910: Optimum replacement last policy for a cumulative damage model (<b>Shey-Huei Sheu; Zhe-George Zhang; Tzu-Hsin Liu; Jau-Chuan Ke</b>)</p> <p>1570637614: Electric Bus Charging Station's Location and Capacity Based on Routes and Grid AP Clustering Algorithm (<b>Fan Yanhong; He Chunhui; Fei Danxiang; Gu Jiu; Da Xie</b>)</p> <p>1570638638: Formulation of Opportunity-Based Age Replacement Models with Markovian Arrival Process (<b>Hiroyuki Okamura; Junjun Zheng; Tadashi Dohi</b>)</p> <p>1570638713: Inventory Control Optimization via Neural-Nets Based Demand Prediction (<b>Haoyu Wang; Xiaoyu Fan; Yan Zhang; Xiaoyue Du; Bohan Cui; Yingjun Deng</b>)</p>	<p>1570638438: A Note on Uncertainty Propagation for Availability Model of Mobile Cloud Computing Systems (<b>Junjun Zheng; Jiahao Zhang; Hiroyuki Okamura; Tadashi Dohi</b>)</p> <p>1570629552: Stability Analysis of Wireless Powered Communication Networks (<b>Mingfu Li; Ching-Chieh Fang; Hwei-Wen Ferng</b>)</p> <p>1570637573: Structural Robustness-based SHM Point Arrangement Strategy for In-service Bridge: A Case Study (<b>Qiwen Jin; Zheng Liu</b>)</p> <p>1570638873: Effects of flow rate and silt particle on vibration of a double-suction centrifugal pump (<b>Zhiyuan Wang; Zhongdong Qian</b>)</p>	<p>1570639329: Optimal design of accelerated life tests for one-shot devices (<b>Chinuk Lee; Suk Joo Bae</b>)</p> <p>1570634003: Optimal design of degradation testing and life testing based on Wiener process models (<b>Zhonghai Ma; Songlin Nie; Fanglong Yin; Hui Ji</b>)</p> <p>1570638515: Modeling the degradation-shock dependence with the consideration of system resistance (<b>Jia Wang; Luyu Zhang; Guanghan Bai</b>)</p> <p>1570638656: Planning of an Accelerated Degradation Test under Different Constraints of Operating Conditions (<b>I-Chen Lee; Zi-Yu Lin</b>)</p>	07:00-09:00	Sunday August 23
	<p><b>Closing ceremony: Zoom Meeting Link: <a href="https://zoom.us/j/92493246918">https://zoom.us/j/92493246918</a> (See email for passcode)</b> (40 minutes)</p>							