

# IEEE Global Reliability and Prognostics & Health Management & Tsinghua IQR Annual Conferences Virtual Meeting (October 16-18, 2020)

[Conference Program \(Oct 13, 2020\)](#)

Beijing Time		Activities Planned
Date	Time	
Friday October 16	08:30- 08:45	<b>Conference Opening Ceremony and Guest Address</b> Prof. Li Zheng (Chair: Prof. Yan-Fu Li) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a>
	08:45- 09:30	<b>Keynote Speech #1: Managing Global Pandemic</b> Prof. Way Kuo (Chair: Prof. Min Xie) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a>
	09:30- 10:15	<b>Keynote Speech #2: Fault Injection, and It's Relationship to Software Testing</b> Dr. Jeff Voas (Chair: Prof. Min Xie) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a>
	10:15- 10:30	<b>Break</b>
	10:30- 11:15	<b>Keynote Speech #3: Reliability Engineering: Today and Beyond</b> Prof. Mohammed Modarres (Chair: Prof. Ming Zuo) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a>
	11:15- 12:00	<b>Keynote Speech #4: Engineering for Resilience: Beyond Reliability and Health Management</b> Prof. Ali Mosleh (Chair: Prof. Ming Zuo) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a>
	12:00- 14:00	<b>Break</b>
	14:00- 14:45	<b>Keynote Speech #5: Shaping a Forward-Looking Quality Profession</b> Prof. Thong-Ngee Goh (Chair: Prof. Kaibo Wang) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a>
	14:45- 15:30	<b>Keynote Speech #6: On-Line Monitoring and Diagnosis of Complex Data</b> Prof. Zhaojun Wang (Chair: Prof. Kaibo Wang) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a>
	15:30- 15:45	<b>Break</b>
15:45- 16:30	<b>Keynote Speech #7: Data modeling and monitoring in additive manufacturing: opportunities and challenges</b> Prof. Bianca Maria Colosimo (JQT EIC) (Chair: Prof. Kaibo Wang) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a>	

# IEEE Global Reliability and Prognostics & Health Management & Tsinghua IQR Annual Conferences Virtual Meeting (October 16-18, 2020)

[Conference Program \(Oct 13, 2020\)](#)

Beijing Time		Activities Planned
Date	Time	
Friday October 16	16:30- 17:30	<p style="text-align: center;">Panel: Quality and Reliability in semiconductor manufacturing                      (Panelists: Wei Kuo, Kary Chien, Bianca Colosimo, TN Goh, Kaibo Wang, Min Xie )                      Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a>                      Password: 202010</p>
Saturday October 17	08:45- 09:30	<p style="text-align: center;">Rail Transportation Workshop Opening Ceremony and Guest Address                      Profs. Kwok Tsui and Yanfu Li                      Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a></p>
	09:30- 10:15	<p style="text-align: center;">Keynote Speech #8: Predictive Maintenance in Multimodal Transportation: a "System of Systems" Challenge                      Dr. Pierre Dersin                      (Chair: Prof. Yan-Fu Li)                      Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a></p>
	10:15- 10:30	<b>Break</b>
	10:30- 11:15	<p style="text-align: center;">Keynote Speech #9: Towards Autonomous Systems that Provide Fault detection, Diagnostics, Prognosis and Repair Assets                      Prof. Clive Roberts                      (Chair: Prof. Yan-Fu Li)                      Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a></p>
	11:15- 12:00	<p style="text-align: center;">Keynote Speech #10: Active Risk Control Methodologies for High-Speed Train Operations Process                      Prof. Yong Qin                      (Chair: Prof. Yan-Fu Li)                      Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a></p>
	12:00- 13:40	<b>Break</b>

# IEEE Global Reliability and Prognostics & Health Management & Tsinghua IQR Annual Conferences Virtual Meeting (October 16-18, 2020)

[Conference Program \(Oct 13, 2020\)](#)

Beijing Time		Activities Planned			
Date	Time				
Saturday October 17	13:40- 15:40	<b>Rail Transportation Workshop</b> (Chairs: Yan-Fu Li) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a>	<b>Invited Session #2: Mechanical Systems Reliability Enhancement through Vibration Analysis</b> (Session Chairs: Zhenguo Zhang, Xihui Liang) VooV Meeting Link: <a href="https://meeting.tencent.com/s/l2WA61HAYM2r">https://meeting.tencent.com/s/l2WA61HAYM2r</a> Password: 202010 (6 papers)	<b>Invited Session #3: Industrial Big Data Mining and Deep Learning for PHM</b> (Session Chairs: Jun Wu, Carman K.M. Lee, Juncal Xu, Yuanhang Wang) VooV Meeting Link: <a href="https://meeting.tencent.com/s/MBcHWQqS8dwL">https://meeting.tencent.com/s/MBcHWQqS8dwL</a> Password: 202010	<b>Invited Session #1.1: Reliability Modeling for Various Special Types of Data</b> (Session Chairs: Renyan. Jiang, Yifan Zhou) VooV Meeting Link: <a href="https://meeting.tencent.com/s/mXRtJn15F8GZ">https://meeting.tencent.com/s/mXRtJn15F8GZ</a> Password: 202010 (6 papers)
	15:40- 15:50		<b>Break</b>		

# IEEE Global Reliability and Prognostics & Health Management & Tsinghua IQR Annual Conferences Virtual Meeting (October 16-18, 2020)

## [Conference Program \(Oct 13, 2020\)](#)

Beijing Time		Activities Planned			
Date	Time				
Saturday October 17	15:50- 17:50	<b>Rail Transportation Workshop</b> (Chairs: Yan-Fu Li) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a>	<b>Invited Session #4: Energy Storage and Electrical Device Reliability</b> (Session Chairs: Yongquan Sun, Xuning Feng, Xianzhong Sun) VooV Meeting Link: <a href="https://meeting.tencent.com/s/l2WA61HAYM2r">https://meeting.tencent.com/s/l2WA61HAYM2r</a> Password: 202010 (6 papers)	<b>Invited Session #5: PHM for transportation</b> (Session Chairs: Janet (Jing) Lin, Baoping Cai, Liangwei Zhang, Haidong Shao) VooV Meeting Link: <a href="https://meeting.tencent.com/s/MBcHWQqS8dwL">https://meeting.tencent.com/s/MBcHWQqS8dwL</a> Password: 202010 (6 papers)	<b>Invited Session #1.2: Reliability Modeling for Various Special Types of Data</b> (Session Chairs: Renyan Jiang, Yifan Zhou) VooV Meeting Link: <a href="https://meeting.tencent.com/s/mXRtJn15F8GZ">https://meeting.tencent.com/s/mXRtJn15F8GZ</a> Password: 202010 (3 papers)
			11: Research on FDIR of Key Sensors for Single Electromagnet Suspension System (Xuejie Cao and Gang Niu)  81: Consistency and degradation of electrochemical double layer capacitors under calendar ageing (Bo Liu, Jia Qi, Xitong Yin and Yongquan Sun)  83: The Effects of Environmental Factors on the Stability of Smart Electricity Meters (Jiahai Zhang, Baoliang Zhang and Yining Yang )  85: A new temperature control strategy for lithium-ion battery forced air-cooling system without temperature overshoot (Chao Lyu, Shihuai Zhu, Yankong Song, Shuang Zhang, Xinfeng Zhao and Lixin Wang)  86: State-of-Charge Estimation of Lithium-ion Batteries Based on Deep Neural Network (Chao Lyu, Yitong Han, Qi Guo, Yankong Song and Lixin Wang)  87: Reliability Modeling Methods Using Field Operation Data of Smart Electricity Meters Based on Wiener Process (Dong Xianguang, Dai Yanjie, Wang Qing, Chen Zhiru, Du Yan, Wang Pingxin, Qi Jia)	20: High-speed train state monitoring method with Broad Learning System (Chong Wang and Jie Liu)  22: Railway Wagon Wheelset Fault Diagnosis Method Based on DBN (Hongkun Wang, Honghui Li, Yusheng Li and Yuhang Duan)  29: Reliability assessment of few-failure data and zero-failure data for wheel axle of railway wagon (Qin Cao, Qi Li, Zengqiang Jiang and Mingcheng E)  46: Research on the Model Integration in Aircraft PHM Development (Linlong Ma, Qunfeng Ye and Shilei Shen)  60: Evaluation of Stress Intensity Factors for Surface Fatigue Cracks in Rail-Wheel Wet Contact (Reza Masoudi Nejad and Zhiliang Liu)  62: Fault Assessment of Hydraulic System Based on Gaussian Mixture Model (Zhaobing Wang, Jian Tang, Xin Jiang, Yi Wang, Jian Ma and Yu Chen)	78: The Reliability Computing of Series System, Parallel System and k/n Systems under Interval Condition (Fang Yongfeng and Tee Kongfah)  82: Research on Knowledge Graph and Bayesian Network in Fault Diagnosis of Steam Turbine (Nan Yang, Jian Wang and Guigang Zhang)  89: Preventive Replacement Policy Optimization of Components in Practical Operation Environment (Chaoqun Huang, Zhisheng Zhang and Yifan Zhou)
				<b>Workshop: ALA (Asset Life Assessment) in petroleum industry using data-driven methods</b> Time: 17:00-17:50 (Chair: Saif Eldin Youssef) Panelists: Yu Liu, Kaiye Gao VooV Meeting Link: <a href="https://meeting.tencent.com/s/mXRtJn15F8GZ">https://meeting.tencent.com/s/mXRtJn15F8GZ</a> Password: 202010	

# IEEE Global Reliability and Prognostics & Health Management & Tsinghua IQR Annual Conferences Virtual Meeting (October 16-18, 2020)

[Conference Program \(Oct 13, 2020\)](#)

Beijing Time		Activities Planned			
Date	Time				
Sunday October 18	8:00- 9:40	<b>Invited Session #6: PHM for Wind Turbine Operation and Maintenance</b> (Session Chairs: Longfei Wang, Bin Yan) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a> (5 papers)	<b>Regular Session #1: Regular - Machine Diagnostics and Prognostics</b> (Session Chairs: Qiang Guo, Yingcai Tang) VooV Meeting Link: <a href="https://meeting.tencent.com/s/l2WA61HAYM2r">https://meeting.tencent.com/s/l2WA61HAYM2r</a> Password: 202010 (5 papers)	<b>Regular Session #2: Optimization</b> (Session Chairs: Qinghua Luo, Wanying Shi) VooV Meeting Link: <a href="https://meeting.tencent.com/s/MBcHWQqS8dwL">https://meeting.tencent.com/s/MBcHWQqS8dwL</a> Password: 202010 (5 papers)	<b>Panel #3: Reliability and Safety in Offshore and Marine Engineering</b> Time:10:00-10:50 (Chairs: Baoping Cai, Janet Lin, Zengkai Liu) Panelists: Yingying Wang, Wenming Wang, Xingwei Zhen, Shengnan Wu) VooV Meeting Link: <a href="https://meeting.tencent.com/s/mXRtJn15F8GZ">https://meeting.tencent.com/s/mXRtJn15F8GZ</a> Password: 202010
		18:Improved ADMM for Sparse Reconstruction of Bearing Vibration Signal (He Liu, Shouwu Duan and Wanqing Song)  44:Multi-echelon inventory optimization of spare parts considering cross-region transshipment and changing demand (Liudong Gu and Yifan Zhou)  58:Research on spare parts inventory optimization based in wind power industry (Bin Yan, Yinbo Ma and Yifan Zhou)  63:Route optimization of wind turbines based on vehicle GPS data (Longfei Wang and Jingjing Liu)  92:Reliability assessment of wind turbine generators by fuzzy universal generating function (Tudi Huang, Tangfan Xiahou, Hong-Zhong Huang, Yan-Feng Li, Hua-Ming Qian and Peng Huang)	23:A Hyper-ellipsoidal Support Vector Data Description Incremental Learning Method for Bearing Fault Diagnosis (Minglei Lu, Siqi Qiu, Xin Chen, Chunfeng Kong and Yingmao Cheng )  30:Distance-Based Embedding Learning for Remaining Useful Life Estimation (Yini Zhang, Yuanxiang Li, Yuxuan Zhang and Lei Jia)  34:Probabilistic Fatigue Life Prediction for Crankshaft of Marine Diesel Engine (Xiaohui Feng, Jingjing He and Xiaopeng Chang)  39:Direct Remaining Useful Life Estimation Based on Random Forest Regression (Xin Chen, Ge Jin, Minglei Lu, Siqi Qiu, Danjiong Yu)  40:Intelligent Fault Diagnosis System Based on Vibration Signal Edge Computing (Siyuan Zhang, Chuangxin He and Zhonghua Miao)	8:Dynamic path planning for multi-handling robots in warehousing system (Minghang Li, Xiaozhen Yan and Qinghua Luo)  21:Path Planning Using Artificial Potential Field Method And A-star Fusion Algorithm (Chunyu Ju, Qinghua Luo and Xiaozhen Yan)  43:Research on MTTR Allocation of Commercial Aircraft (Zheng Wang, Xixi Yan and Linlong Ma)  54:Energy Efficient Path Planning for Indoor Wheeled Mobile Robots (Jing Liu, Zhaojun Li, Liping He and Wanying Shi)  95:Condition-based Maintenance Optimization for Gearbox Using Proportional Hazards Model (Chiming Guo, Yongsheng Bai, Handong Wang and Rui Tong )	
	09:40- 10:00	<b>Break</b>			

# IEEE Global Reliability and Prognostics & Health Management & Tsinghua IQR Annual Conferences Virtual Meeting (October 16-18, 2020)

[Conference Program \(Oct 13, 2020\)](#)

Beijing Time		Activities Planned			
Date	Time				
Sunday October 18	10:00- 12:00	<p><b>Tutorial #1: State-Space Modeling for Sensor-Driven Monitoring, Control, and Decision Making in Dynamic Systems</b> Prof. Ramin Moghaddass Time: 10:00-11:00 (Chair: Steven Li) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a></p>	<p><b>Regular Session #6: General Reliability Analysis</b> (Session Chairs: Hong-Zhong Huang, Yingcai Tang) VooV Meeting Link: <a href="https://meeting.tencent.com/s/l2WA61HAYM2r">https://meeting.tencent.com/s/l2WA61HAYM2r</a> Password: 202010 (6 papers)</p>	<p><b>Regular Session #4: Data Driven Methods for PHM</b> (Session Chairs: Yunxia Chen, Haidong Shao) VooV Meeting Link: <a href="https://meeting.tencent.com/s/MBcHWQqS8dwL">https://meeting.tencent.com/s/MBcHWQqS8dwL</a> Password: 202010</p>	<p><b>Panel #1: PHM for Mechanical Systems</b> Time: 8:00-8:50 (Chair: Siqi Qiu) Panelists: Yu Liu, Wong Wang, Tangbin Xia, Lei Xiao, Gaowei Xu VooV Meeting Link: <a href="https://meeting.tencent.com/s/mXRtJn15F8GZ">https://meeting.tencent.com/s/mXRtJn15F8GZ</a> Password: 202010</p>
			<p>47: Reliability Allocation and Prediction for Command and Control System (Yifan Li, Haitao Chen, Jun Huang, Xiang Li, Ting-Yu Zhang and Hong-Zhong Huang)</p> <p>48: Construction of health index for aircraft air-conditioning system health prediction (Xin Yin, Yuanxiang Li, Yuxuan Zhang, Yini Zhang and Lei Jia)</p>	<p>14: A New Hyperparameters Identification Method of Support Vector Regression Model Based on Back Propagation Neural Network (Yongtang Ye, Wenbo Zhang, Kunsong Lin and Yunxia Chen)</p> <p>28: Internal Leakage Detection of Hydraulic Cylinder Based on Wavelet Analysis and BP Neural Network (Liqin Wang, Dongfeng Wang, Jianjun Qi and Yong Xue)</p>	
		<p><b>Tutorial #2: The Future of Blockchain Technology in Electronic Medical Records</b> Prof. Gautam Srivastava Time: 11:00-12:00 (Chair: Yuejian Chen) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a></p>	<p>49: Reliability Analysis for Photoelectric Pods Based on FMEA (Ying Zeng, Yan-Feng Li, Jun Huang, Xiaohong Hao, Haitao Chen and Hong-Zhong Huang)</p> <p>91: Optimal abort policy of a distributed system of computers with Weibull failure time (Kaiye Gao, Qingqing Zhai, Hui Xiao, Rui Peng and Jie Mi)</p> <p>69: Reliability Growth Method and Application Based on Operation Fault Analysis (Xuerui Yang)</p> <p>80: Method and Application of Civil Aircraft Reliability Monitoring Based on Critical Items (Xuerui Yang)</p>	<p>55: Prediction of Lithium-ion Battery Capacity based on ARMA method (Bo Ma, Zhaojun Li and Wei Guo)</p> <p>57: Parameters Estimation of Mixed Weibull Distribution based on Nonlinear Least Square Method and Simulated Annealing Algorithm (Youyuan Wang, Zhaojun Li, Liping He and Meiyan Li)</p> <p>61: A Feature Selection Method Based on Improved Genetic Algorithm (Liang Kui, Dai Wei, and Rui Du)</p> <p>71: Comparison Research of Feature Fusion Methods in Characterizing Performance Degradation of Aeroengine (Haidong Shao and Wei Li)</p>	<p><b>Panel #5: Reliability Analysis and Design Optimization under Epistemic Uncertainty</b> Time: 13:30-14:20 (Chairs: Yu Liu, Jinhua Mi) Panelists: Sifeng Bi, Siqi Qiu, Zhe Zhang, Jialong He, Zhiguo Zeng VooV Meeting Link: <a href="https://meeting.tencent.com/s/mXRtJn15F8GZ">https://meeting.tencent.com/s/mXRtJn15F8GZ</a> Password: 202010</p>
	12:00- 13:30	<b>Break</b>			

# IEEE Global Reliability and Prognostics & Health Management & Tsinghua IQR Annual Conferences Virtual Meeting (October 16-18, 2020)

[Conference Program \(Oct 13, 2020\)](#)

Beijing Time		Activities Planned			
Date	Time				
Sunday October 18	13:30- 15:10	<p><b>Regular Session #5: Remaining Useful Life Predication</b> (Session Chairs: Ningcong Xiao, Reza M. Nejad) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a> (5 papers)</p>	<p><b>Regular Session #3: Aircraft health management</b> (Session Chairs: Hu-Chen Liu, Jianfeng Yang) VooV Meeting Link: <a href="https://meeting.tencent.com/s/l2WA61HAYM2r">https://meeting.tencent.com/s/l2WA61HAYM2r</a> Password: 202010 (5 papers)</p>	<p><b>Regular Session #7: Advanced machine learning for PHM</b> (Session Chairs: Yifan Zhou, Zhenhua Wen) VooV Meeting Link: <a href="https://meeting.tencent.com/s/MBcHWQqS8dwL">https://meeting.tencent.com/s/MBcHWQqS8dwL</a> Password: 202010</p>	<p><b>Panel #4: System Risk Analysis and Decision Making</b> Time: 11:00-11:50 (Chairs: Rui Peng, Kaiye Gao) Panelists: Yixiao Zhao, Yihai He, Jingjing Wang, Feng Liu, Fuqiang Li, Hefei Liu, Xiaoping Zhu, Chiming Guo) VooV Meeting Link: <a href="https://meeting.tencent.com/s/mXRtJn15F8GZ">https://meeting.tencent.com/s/mXRtJn15F8GZ</a> Password: 202010</p>
		<p>6: Degradation trend monitoring and remaining useful life prediction of aircraft engines (Ruihua Jiao, Kaixiang Peng, Liang Ma, Peng Tang and Chuanfang Zhang)</p> <p>17: Remaining Useful Life Prediction for Products with Typical Distributions (Qian Zhao, Ping Jiang, Wei Tan and Fenchen Qian)</p> <p>31: Tool wear prediction based on Canonical Correlation Analysis (CCA) and Neural Network fitting method (Lian Die Zhu, Wei Dai and Xiaoliang Wang)</p> <p>56: Adaptive prediction of remaining useful lifetime for single equipment based on accelerated degradation modeling (Zhongyi Cai, Zezhou Wang, Yan Li and Tao Wang)</p> <p>67: Effect of Lubricant on Surface Crack Propagation and Fatigue Life of One-Way Rail in Rail-Wheel Contact (Reza Masoudi Nejad and Zhiliang Liu)</p>	<p>15: The Improvement of Remaining Useful Life Prediction for Aero-engines by Injecting Noise (Junxuan Tang, Lei Xiao, Nailong Wu and Jingsong Zhao)</p> <p>72: Application Research of Highly Accelerated Life Test on Civil Aircraft Airborne Equipment (Peng Lu and Hua Lu)</p> <p>74: Research on Civil Aircraft Operational Support Concept (Weiyan Gao)</p> <p>75: Research on Dispatch Reliability Allocation in Commercial Aircraft Development (Dun Yong Bao and Jiawei Sun)</p> <p>76: Research on Dispatch Reliability Prediction in Commercial Aircraft Development (Dun Yong Bao and Jiawei Sun)</p>	<p>37: Multi-component Maintenance optimization: an approach combining genetic algorithm and multi-agent reinforcement learning (Bangcheng Li and Yifan Zhou)</p> <p>38: Multi-Agent Reinforcement Learning for Dynamic Spare Parts Inventory Control (Cheng Yu, Yifan Zhou and Zhisheng Zhang)</p> <p>59: Machinery Fault Diagnosis Using Recurrent Neural Network: A Review (Tongrui Xu, Huan Wang, Zhiliang Liu and Yijia Hao)</p> <p>66: A Knowledge Acquisition Method Based on Rough Set Theory and Neural Networks to Electrostatic Monitoring Systems for the gas path in an Aero-Engine (Zhenhua Wen and Xiaofei Zhao)</p> <p>93: Application of A Taylor Expansion Criterion-based Pruning Convolutional Network for Bearing Intelligent Diagnosis (Yuan Si and Wei Guo)</p>	
	15:10- 15:20	<b>Break</b>			
					<p><b>Panel #6: Traffic Health Management</b> Time: 14:20-15:10 (Chair: Daqing Li) Panelists: Xiangdong Xu, Peng Chen, Ke Wang, Guanwen Zeng) VooV Meeting Link: <a href="https://meeting.tencent.com/s/mXRtJn15F8GZ">https://meeting.tencent.com/s/mXRtJn15F8GZ</a> Password: 202010</p>

# IEEE Global Reliability and Prognostics & Health Management & Tsinghua IQR Annual Conferences Virtual Meeting (October 16-18, 2020)

[Conference Program \(Oct 13, 2020\)](#)

Beijing Time		Activities Planned			
Date	Time				
Sunday October 18	15:20-17:00	<p><b>Regular Session #8: Fault Detection and Diagnosis</b> (Session Chairs: Guoliang Lu and Zhiyuan Wang) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a> (5 papers)</p>	<p><b>Regular Session #9: Reliability Analysis and Testing</b> (Session Chairs: Shunong Zhang and Qiang Miao) VooV Meeting Link: <a href="https://meeting.tencent.com/s/l2WA61HAYM2r">https://meeting.tencent.com/s/l2WA61HAYM2r</a> Password: 202010</p>	<p><b>Regular Session #10: General</b> (Session Chairs: Liping He and Yu Liu) VooV Meeting Link: <a href="https://meeting.tencent.com/s/MBcHWQqS8dwL">https://meeting.tencent.com/s/MBcHWQqS8dwL</a> Password: 202010 (5 papers)</p>	<p><b>Panel #7: System Reliability Analysis and Diagnostics</b> Time: 15:20-16:10 (Chair: Yincai Tang) Panelists: Tiejun Cui, Han Wang, Fode Zhang, Jiawei Xu VooV Meeting Link: <a href="https://meeting.tencent.com/s/mXRtJn15F8GZ">https://meeting.tencent.com/s/mXRtJn15F8GZ</a> Password: 202010</p>
		<p>26: Bearing Fault Diagnosis under Varying Speed Conditions Based on Multi-Resolution Singular Value Decomposition (Yujing Huang, Gang Tang, Han Wang and Dongdong Wang)</p> <p>36: Bending deflection estimation of the beam-like structure based on strain measurements from a fiber Bragg grating sensing network (Jieming Yin, Liu Hong, Zechao Wang and Yuegang Tan)</p> <p>45: Integrated quality diagnosis approach for manufacturing system based on the quality transmission chain (Jian Wang, Lingli Mu, Yixiao Zhao, Yihai He and Wenzhuo Wang)</p> <p>79: Anomaly Detection of Marine Diesel Engine Valve System based on Mahalanobis Distance (Sun Yue, Xu Aidong, Wang Kai, Shuli Jia Haifeng Guo and Xiaojia Han)</p> <p>94: Early Fault Detection Of Rolling Element Bearings Based On Graph Modeling Of Component Signals (Zixu Chen and Guoliang Lu)</p>	<p>2: A review on testability verification test and fault injection technology (Weiwei Cui, Weikang Xue, Lianfeng Li and Xiao Hu)</p> <p>5: Stress Reliability Sensitivity Analysis for A Flexibility Rotor (Lisha Zhu, Yuhang Wang, Zisheng Lin, Haonan Chen, Guo Yao and Wenzhu Wang)</p> <p>16: Radar Health Management System Based on Multi-agent (Qixiao Zhang, Peng Dong, Jianjun Yang and Yi Cai)</p> <p>70: Evaluation Method of Smart Meters Operating Status Based on Improved TOPSIS and Cluster Analysis (Dan Xu, You Li and Shaobo Sui)</p> <p>90: Experimental Research on Step Stress Accelerated Degradation Test Considering Impacts of Stress Conversion (Wenwen Shi, Shunong Zhang, Xing Xu and Cong Shao)</p>	<p>51: Evidential Fusion Method of Feature Points Matching for the Visual Odometry (Shidong Liu, Li-Ping He, Linqiao Xing and Hao Qin)</p> <p>52: Kinematics Analysis and Simulation Verification for the Chassis of Mobile Robots Based on An Obstacle-crossing Index (Hao Qin, Li-Ping He, Linqiao Xing and Shidong Liu)</p> <p>53: A Robust RGB-D SLAM with Loosely-Coupled Semi-Direct Method (Wenbin Liang, Li-Ping He, Jing Liu and Youyuan Wang)</p> <p>84: Resilience Enhancement for Multi-State Interdependent Infrastructure Networks (Kai Wang, Zhaoping Xu and Yu Liu)</p> <p>88: An Internet of Things (IoT) Perspective of Understanding the Boeing 737 MAX Crash (Pan Luo, Meiyuan Li and Zhaojun Li)</p>	
	17:00-17:30	<p><b>Closing Ceremony</b> (Chair: Steven Li) Zoom Meeting Link: <a href="https://ualberta-ca.zoom.us/j/97768037095">https://ualberta-ca.zoom.us/j/97768037095</a></p>			