The 4th Sino-US Research Conference on

Quality, Analytics and Innovations

**Program**

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| **May 25, 2019 (Saturday) 会议中心一楼会议大厅** | | | |
| **Opening Speech**  **（Peng Zhao）** | 8:00-8:20 | **Opening Speech** | |
| **Group Photo** | 8:20-8:30 | **All Members** | |
| **Keynote Speech**  **(Wei Jiang)** | 8:30-9:15 | **N. Balakrishnan** (McMaster University)  *Reliability Modelling and Assessment of a Heterogeneously Repaired System with Partially Relevant Recurrence Data* | |
| 9:15-10:00 | **Hongwei Wang** (Huazhong University of Science and Technology)  *Incentive Issures in Construction Engineering Quality Management* | |
| **Tea Break** (10:00-10:20) | | | |
| **Invited Speech**  **(Kaibo Wang)** | 10:20-10:55 | **Satish Bukkapatnam** (Texas A&M University)  *Multi-modal Data Analysis for Smart Manufacturing* | |
| 10:55-11:30 | **David W. Coit** (Rutgers University)  *System Reliability Optimization: Past, Present and Future* | |
| 11:30-12:05 | **Lirong Cui** (Beijing Institute of Technology)  *Recent Developments on Some Reliability Topics* | |
| **Lunch** (12:10-13:30) **Shuiyunjian Buffet Restaurant 水云间自助餐厅** | | | |
| **Keynote Speech**  **(Taizhong Hu)** | 14:30-15:15 | **Shiyu Zhou** (University of Wisconsin-Madison)  *Advances in Data Analytics for IoT Enabled Smart and Connected Systems* | |
| 15:15-16:00 | **Xiangzhong Fang** (Peking University)  *Reliability Evaluation Based on Small Sample* | |
| **Tea Break** (16:00-16:20) | | | |
| **Invited Speech**  **(Xinggang Luo)** | 16:20-16:55 | **Dennis K.J. Lin** (Pennsylvania State University)  *Order-of-addition Experiments: Design and Analysis* | |
| 16:55-17:30 | **Hon Keung Tony Ng** (Southern Methodist University)  *Robust Control Charts for Percentiles Based on Model-selection Approaches* | |
| 17:30-18:05 | **Mingjian Zuo** (University of Alberta)  *Machine-learning Methods for PHM and Reliability Assurance* | |
| **Dinner** (18:10-19:40) **Shuiyunjian Buffet Restaurant 水云间自助餐厅** | | | |
| **会议中心二楼**  **6号会议室** | 20:00 | | **管理科学与工程学会质量与可靠性管理分会会员会议** |

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| **May 26, 2019 (Sunday)** | | |
| **Invited Speech**  **(Peng Zhao)**  **会议中心**  **一楼会议大厅** | 08:00-08:35 | **Hong Huo** (National Science Foundation of China)  *How does NSFC decide to fund a proposal?*  （一个基金项目是如何决定被资助的） |
| **Parallel-A1**  **(Shubin Si)**  **会议中心**  **一楼会议大厅** | 08:35-08:55 | **Qinglai Dong** (Beijing Institute of Technology)  *Reliability Analysis of a Two-stage Degradation System Subject to Competing Failures* |
| 08:55-09:15 | **Chen Fang** (Beijing Institute of Technology)  *Reliability Analysis for Balanced Engine Systems with m Sectors by Considering Start-up Probability* |
| 09:15-09:35 | **Zhongchao Sun** (Northwestern Polytechnical University)  基于田口质量损失的误差重要性测度方法 |
| 09:35-09:55 | **Ting Li** (Tianjin University)  *The Optimal Quality Investment Decision Based on the Comprehensive Model: A Multivariate Perspective* |
| 09:55-10:15 | **Zhenggeng Ye** (Northwestern Polytechnical University)  *Competing Failure Modeling for Performance Analysis of Manufacturing Systems* |
| **Tea Break** (10:15-10:30) | | |
| **Parallel-A2**  **(Hon Keung Ng)**  **会议中心**  **一楼会议大厅** | 10:30-10:50 | **Haotian Liu** (Peking University)  *Diagnosis and Prognostics of Aero Engine by Sensor Data Analytics* |
| 10:50-11:10 | **Lisha Song** (Tianjin University)  *Change-point Detection in Phase I for Autocorrelated Poisson Profiles* |
| 11:10-11:30 | **Bowen Yuan** (Northeastern University)  *A Density-based kNN Method for Quality Prediction of Crankcase Production with Imbalanced and Overlapping Datasets* |
| 11:30-11:50 | **Lining Yang** (Shanghai Jiao Tong Univeristy)  *Multiple Synchronized Change Point Detection of Multisignal by Piecewise Linear Regression with Group Lasso* |
| **Lunch** (12:00-14:00) **Shuiyunjian Buffet Restaurant 水云间自助餐厅** | | |

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| **May 26, 2019 (Sunday)** | | |
| **Parallel-B1**  **(Gaofeng Da)**  **会议中心二楼**  **6号会议室** | 08:35-08:55 | **Mei Han** (Nanjing University of Aeronautics and Astronautics)  *Integrated Parameter and Tolerance Optimization of a Centrifugal Compressor Based on a Complex Simulator* |
| 08:55-09:15 | **He Huang** (Tianjin University)  *A Global Optimization Method for Multiple Response Optimization Problems* |
| 09:15-09:35 | **Chenglong Lin** (Nanjing University of Science and Technology)  *Pseudo-expected Improvement Criteria for Parallel Efficient Global Optimization Algorithm Based Partial least Squares and Kriging Model* |
| 09:35-09:55 | **Linhan Ouyang** (Nanjing University of Aeronautics and Astronautics)  *Robust Stochastic Kriging for Simulation Optimization* |
| 09:55-10:15 | **Zhengyong Zhang** (Nanjing University of Finance & Economics)  *Rapid Identification of Food Quality and Safety Based on Quality Characteristic Analysis and Discrimination Algorithms* |
| **Tea Break** (10:15-10:30) | | |
| **Parallel-B2**  **(Maochao Xu)**  **会议中心二楼**  **6号会议室** | 10:30-10:50 | **Yuanyuan Gao** ( Peking University )  *A Neural Network Based Joint Prognostic Model for Data Fusion and Remaining Useful Life Prediction* |
| 10:50-11:10 | **Xueqing Wang** (Tianjin University)  *A Modified Latin Hypercube Sampling Based on Prior Information* |
| 11:10-11:30 | **Pan Zhang** (Northwestern Polytechnical University)  *Integrated Applications of Network Science and Big Data Analysis* |
| 11:30-11:50 | **Panpan Zhou** (Nanjing University of Finance & Economics)  *An ERGM-based Approach for Monitoring Network Data* |
| **Lunch** (12:00-14:00) **Shuiyunjian Buffet Restaurant 水云间自助餐厅** | | |