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** |