Please contact me (minxie@cityu.edu.hk) if you need any of the papers.

Modeling and analysis of reliability of multi-release open source software incorporating both fault detection and correction processes
By Jianfeng Yang, Yu Liu, Min Xie, Ming Zhao

Estimation procedures for grouped data – a comparative study
By Xiao, X.; Mukherjee, A.; Xie, M.

Assessing wind curtailment under different wind capacity considering the possibilistic uncertainty of wind resources
ELECTRIC POWER SYSTEMS RESEARCH, Volume 132, March 2016, Pages 39-46
By Can Sun, Zhaohong Bie, Min Xie, Jiangfeng Jiang

A Shrinkage Approach for Failure Rate Estimation of Rare Events
QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL, Volume 32, Issue 1, 1 February 2016, Pages 123-132
By Xiao, X.; Xie, M.

A fuzzy TOPSIS and Rough Set based approach for mechanism analysis of product infant failure
By: He, Yi-Hai; Wang, Lin-Bo; He, Zhen-Zhen; Xie, Min
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE Volume: 47 Pages: 25-37 Published: JAN 2016

Robust algorithms for economic designing of a nonparametric control chart for abrupt shift in location
By: Li, Chenglong; Mukherjee, Amitava; Su, Qin; Xie, Min
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION Volume: 86 Issue: 2 Pages: 306-323 Published: JAN 22 2016

Modularity’s impact on the quality and productivity of embedded software development: a case study in a Hong Kong company
By: Sun, Hongyi; Ha, Waileung; Xie, Min; et al.
TOTAL QUALITY MANAGEMENT & BUSINESS EXCELLENCE Volume: 26 Issue: 11-12 Pages: 1188-1201 Published: DEC 2 2015

Process Capability Indices Based on the Highest Density Interval
By: Yang, Jun; Gang, Tingting; Cheng, Yuan; Xie, Min
QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL Volume: 31 Issue: 8 Pages: 1327-1335 Published: DEC 2015

Circle Chart for the Monitoring of Maxima in Periodic Processes
By: Deng, Peipei; Thong Ngee Goh; Cheng, Yuan; Xie, Min
QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL Volume: 31 Issue: 8 Pages: 1437-1447 Published: DEC 2015

An empirical analysis of data preprocessing for machine learning-based software cost estimation
By: Huang, Jianglin; Li, Yan-Fu; Xie, Min
INFORMATION AND SOFTWARE TECHNOLOGY Volume: 67 Pages: 108-127 Published: NOV 2015
Degradation-based maintenance decision using stochastic filtering for systems under imperfect maintenance
By: Zhang, Mimi; Gaudoin, Olivier; Xie, Min
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH  Volume: 245  Issue: 2  Pages: 531-541
Published: SEP 1 2015

Optimal designs of the variable sample size and sampling interval X chart when process parameters are estimated
By: Lim, S. L.; Khoo, Michael B. C.; Teoh, W. L.; Xie, Min
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS  Volume: 166  Special Issue: SI
Pages: 20-35  Published: AUG 2015

Cost analysis for multi-component system with failure interaction under renewing free-replacement warranty
By: Liu, Bin; Wu, Jun; Xie, Min
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH  Volume: 243  Issue: 3  Pages: 874-882
Published: JUN 16 2015

Optimal resource distribution between protection and redundancy considering the time and uncertainties of attacks
By: Mo, Huadong; Xie, Min; Levitin, Gregory
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH  Volume: 243  Issue: 1  Pages: 200-210
Published: MAY 16 2015

Design of exponential control charts based on average time to signal using a sequential sampling scheme
By: Yang, Jun; Yu, Huan; Cheng, Yuan; Xie, Min
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH  Volume: 53  Issue: 7  Pages: 2131-2145
Published: APR 3 2015

Effects of wind speed probabilistic and possibilistic uncertainties on generation system adequacy
By: Sun, Can; Bie, Zhaohong; Xie, Min; et al.
IET GENERATION TRANSMISSION & DISTRIBUTION  Volume: 9  Issue: 4  Pages: 339-347
Published: MAR 5 2015

A game-theoretical approach for optimizing maintenance, spares and service capacity in performance contracting
By: Jin, Tongdan; Tian, Zhigang; Xie, Min
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS  Volume: 161  Pages: 31-43
Published: MAR 2015

Stochastic modelling and analysis of degradation for highly reliable products
By: Ye, Zhi-Sheng; Xie, Min
APPLIED STOCHASTIC MODELS IN BUSINESS AND INDUSTRY  Volume: 31  Issue: 1  Special Issue: SI
Pages: 16-32  Published: JAN-FEB 2015

Dynamic modeling of general three-state k-out-of-n:G systems: Permanent-based computational results
By: Eryilmaz, Serkan; Xie, Min
Reliability of warm-standby systems subject to imperfect fault coverage
By: Tannous, Ola; Xing, Liudong; Peng, Rui; Xie, Min

A value-based preventive maintenance policy for multi-component system with continuously degrading components
By: Liu, Bin; Xu, Zhengguo; Xie, Min; et al.

Generalized moment-independent importance measures based on Minkowski distance
By: Zhai, Qingqing; Yang, Jun; Xie, Min; et al.

Accident risk assessment in marine transportation via Markov modelling and Markov Chain Monte Carlo simulation
By: Faghih-Roohi, Shahrzad; Xie, Min; Ng, Kien Ming

A condition-based maintenance strategy for heterogeneous populations
By: Zhang, Mimi; Ye, Zhisheng; Xie, Min

An Optimal Control Procedure based on Multivariate Synthetic Cumulative Sum
By: Lee, Ming Ha; Khoo, Michael B. C.; Xie, Min

Semiparametric Estimation of Gamma Processes for Deteriorating Products
By: Ye, Zhi-Sheng; Xie, Min; Tang, Loon-Ching; et al.

A study of process monitoring based on inverse Gaussian distribution
By: Guo, Baocai; Wang, Bing Xing; Xie, Min

Objective Bayes analysis of zero-inflated Poisson distribution with application to healthcare data
By: Xu, Hai-Yan; Xie, Min; Goh, Thong Ngee

A Stochastic EM Algorithm for Progressively Censored Data Analysis
By: Zhang, Mimi; Ye, Zhisheng; Xie, Min
Development of energy and reserve pre-dispatch and re-dispatch models for real-time price risk and reliability assessment
By: Ding, Yi; Xie, Min; Wu, Qiuwei; et al.
IET GENERATION TRANSMISSION & DISTRIBUTION Volume: 8 Issue: 7 Pages: 1338-1345 Published: JUL 2014

Lower confidence limit for reliability based on grouped data using a quantile-filling algorithm
By: Zhang, Mimi; Hu, Qingpei; Xie, Min; et al.
COMPUTATIONAL STATISTICS & DATA ANALYSIS Volume: 75 Pages: 96-111 Published: JUL 2014

Statistical inference for the extreme value distribution under adaptive Type-II progressive censoring schemes
By: Ye, Zhi-Sheng; Chan, Ping-Shing; Xie, Min; et al.
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION Volume: 84 Issue: 5 Pages: 1099-1114 Published: MAY 4 2014

Study of an imputation algorithm for the analysis of interval-censored data
By: Xiao, Xun; Hu, Qingpei; Yu, Dan; et al.
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION Volume: 84 Issue: 3 Pages: 477-490 Published: MAR 4 2014

Dynamic availability assessment and optimal component design of multi-state weighted k-out-of-n systems
By: Faghih-Roohi, Shahrzad; Xie, Min; Kien Ming Ng; et al.
RELIABILITY ENGINEERING & SYSTEM SAFETY Volume: 123 Pages: 57-62 Published: MAR 2014

ARL-unbiased control charts for the monitoring of exponentially distributed characteristics based on type-II censored samples
By: Guo, Baocai; Wang, Bing Xing; Xie, Min
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION Volume: 84 Issue: 12 Pages: 2734-2747 Published: 2014

A study of N-version programming and its impact on software availability
By: Xie, Min; Xiong, Chengjie; Ng, Szu-Hui
INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE Volume: 45 Issue: 10 Pages: 2145-2157 Published: 2014

Bi-objective burn-in modeling and optimization
By: Ye, Zhi-Sheng; Tang, Loon-Ching; Xie, Min
ANNALS OF OPERATIONS RESEARCH Volume: 212 Issue: 1 Pages: 201-214 Published: JAN 2014

JOINT MAINTENANCE AND SPARE COMPONENT PROVISIONING POLICY FOR k-OUT-OF-n SYSTEMS
By: Chen, Liangpeng; Ye, Zhi-Sheng; Xie, Min
ASIA-PACIFIC JOURNAL OF OPERATIONAL RESEARCH Volume: 30 Issue: 6 Article Number: 1350023 Published: DEC 2013
A Bivariate Maintenance Policy for Multi-State Repairable Systems With Monotone Process
By: Zhang, Mimi; Xie, Min; Gaudoin, Olivier
IEEE TRANSACTIONS ON RELIABILITY  Volume: 62  Issue: 4  Pages: 876-886  Published: DEC 2013

Reliability estimation of maritime transportation: A study of two fuzzy reliability models
By: Gaonkar, Rajesh S. Prabhu; Xie, Min; Fu, Xiuju
OCEAN ENGINEERING  Volume: 72  Pages: 1-10  Published: NOV 1 2013

Optimal structure of multi-state systems with multi-fault coverage
By: Peng, Rui; Mo, Huadong; Xie, Min; et al.
RELIABILITY ENGINEERING & SYSTEM SAFETY  Volume: 119  Pages: 18-25  Published: NOV 2013

Analyzing Highly Censored Reliability Data without Exact Failure Times: An Efficient Tool for Practitioners
By: Zhang, Cai Wen; Zhang, Tieling; Xu, Dongsheng; et al.
QUALITY ENGINEERING  Volume: 25  Issue: 4  Pages: 392-400  Published: OCT 1 2013

A Bayesian Approach for System Reliability Analysis With Multilevel Pass-Fail, Lifetime and Degradation Data Sets
By: Peng, Weiwen; Huang, Hong-Zhong; Xie, Min; et al.
IEEE TRANSACTIONS ON RELIABILITY  Volume: 62  Issue: 3  Pages: 689-699  Published: SEP 2013

By: Fang, Chao; Marle, Franck; Xie, Min; et al.
IEEE TRANSACTIONS ON ENGINEERING MANAGEMENT  Volume: 60  Issue: 3  Pages: 627-639  Published: AUG 2013

Life cycle reliability assessment of new products-A Bayesian model updating approach
By: Peng, Weiwen; Huang, Hong-Zhong; Li, Yanfeng; et al.
RELIABILITY ENGINEERING & SYSTEM SAFETY  Volume: 112  Pages: 109-119  Published: APR 2013

Reference ship selection for the on-time performance benchmarking of ships
By: Gaonkar, Rajesh S. Prabhu; Xie, Min; Majumdar, Indranil

Optimizing maritime travel time reliability
By: Gaonkar, Rajesh S. Prabhu; Xie, Min; Huang, Hong-Zhong

Accident analysis model based on Bayesian Network and Evidential Reasoning approach
By: Wang, Yan Fu; Xie, Min; Chin, Kwai-Sang; et al.
Reliability evaluation of hard disk drive failures based on counting processes
By: Ye, Zhi-Sheng; Xie, Min; Tang, Loon-Ching
RELIABILITY ENGINEERING & SYSTEM SAFETY Volume: 109 Pages: 110-118 Published: JAN 2013

Circle Chart for Monitoring of Periodic Measurements
By: Xie, M.; Goh, T. N.; Deng, P. P.
QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL Volume: 28 Issue: 8 Pages: 943-948 Published: DEC 2012

A model for integer-valued time series with conditional overdispersion
By: Xu, Hai-Yan; Xie, Min; Goh, Thong Ngee; et al.
COMPUTATIONAL STATISTICS & DATA ANALYSIS Volume: 56 Issue: 12 Pages: 4229-4242 Published: DEC 2012

Degradation-based burn-in with preventive maintenance
By: Ye, Zhi-Sheng; Shen, Yan; Xie, Min
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH Volume: 221 Issue: 2 Pages: 360-367 Published: SEP 1 2012

A Study of Lifetime Optimization of Transportation System
By: Sun, Zhan-Li; Xie, Min; Ng, Kien Ming; et al.
IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART A-SYSTEMS AND HUMANS Volume: 42 Issue: 4 Pages: 1013-1019 Published: JUL 2012

MULTI-OBJECTIVE OPTIMIZATION APPROACHES TO SOFTWARE RELEASE TIME DETERMINATION
By: Li, Xiang; Xie, Min; Ng, Szu Hui
ASIA-PACIFIC JOURNAL OF OPERATIONAL RESEARCH Volume: 29 Issue: 3 Special Issue: SI Article Number: 1240019 Published: JUN 2012

Degradation-Based Burn-In Planning Under Competing Risks
By: Ye, Zhi-Sheng; Xie, Min; Tang, Loon-Ching; et al.
TECHNOMETRICS Volume: 54 Issue: 2 Pages: 159-168 Published: MAY 2012

An improved self-starting cumulative count of conforming chart for monitoring high-quality processes under group inspection
By: Zhang, Cai Wen; Xie, Min; Jin, Tongdan
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH Volume: 50 Issue: 23 Pages: 7026-7043 Published: 2012

Element maintenance and allocation for linear consecutively connected systems
By: Peng, Rui; Xie, Min; Ng, Szu Hui; et al.
IIE TRANSACTIONS Volume: 44 Issue: 11 Special Issue: SI Pages: 964-973 Published: 2012