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A Mixture of Variational Canonical Correlation Analysis for Nonlinear and Quality-relevant Process Monitoring

By: Yiqi Liu; Bin Liu; Xiujie Zhao; Min Xie

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, accepted for publication

On the Mean Residual Life of a Generalized k-out-of-n System

By: S. Goliforushani, M. Xie & N. Balakrishnan

COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, accepted for publication

An adaptive two-stage Bayesian model averaging approach to planning and analyzing accelerated life tests under model uncertainty

By: Zhao, X., Pan, R., del Castillo, E., & Xie, M

JOURNAL OF QUALITY TECHNOLOGY, accepted for publication

An EWMA Monitoring Scheme with a Single Auxiliary Variable for Industrial Processes

By: Sanusi, Ridwan A., Muhammad Riaz, Nurudeen A. Adegoke, and Min Xie

COMPUTERS & INDUSTRIAL ENGINEERING accepted for publication

Availability-based engineering resilience metric and its corresponding evaluation methodology

By: Cai, Baoping; Xie, Min; Liu, Yonghong et al.

RELIABILITY ENGINEERING & SYSTEM SAFETY Volume: 172 Pages: 398-412 Published: APR 2018

Performance-based maintenance of gas turbines for reliable control of degraded power systems

By: Mo, Huadong; Sansavini, Giovanni; Xie, Min

MECHANICAL SYSTEMS AND SIGNAL PROCESSING, Volume: 103 Pages: 398-412 Published: MAR 15 2018

Investigating the root causes of major failures of critical components - With a case study of asbestos cement pipes

By: Mulenga, Kabwe; Zhao, Xiujie; Xie, Min; et al.

ENGINEERING FAILURE ANALYSIS Volume: 84 Pages: 121-130 Published: FEB 2018

==== 2017 ====

A condition-based maintenance policy for degrading systems with age- and state-dependent operating cost

By: Liu, Bin; Wu, Shaomin; Xie, Min; et al.

EUROPEAN JOURNAL OF OPERATIONAL RESEARCH Volume: 263 Issue: 3 Pages: 879-887 Published: DEC 16 2017

Maintenance Scheduling for Multicomponent Systems with Hidden Failures

By: Liu, Bin; Yeh, Ruey-Huei; Xie, Min; et al.

IEEE TRANSACTIONS ON RELIABILITY Volume: 66 Issue: 4 Pages: 1280-1292 Published: DEC 2017

An Approach for Reliability Demonstration Test Based on Power-Law Growth Model

By: Xu, J. Y.; Yu, D.; Xie, M.; et al.

QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL Volume: 33 Issue: 8 Pages: 1719-1730
Published: DEC 2017

A Study of Control Chart for Monitoring Exponentially Distributed Characteristics Based On Type-II Censored Samples

By: Huang, Shuo; Yang, Jun; Xie, Min

QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL Volume: 33 Issue: 7 Pages: 1513-1526

Published: NOV 2017

Bayesian Networks in Fault Diagnosis

By: Cai, Baoping; Huang, Lei; Xie, Min

IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS Volume: 13 Issue: 5 Pages: 2227-2240 Published: OCT 2017

Applying Importance Measures to Risk Analysis in Engineering Project Using a Risk Network Model

By: Fang, Chao; Marle, Franck; Xie, Min

IEEE SYSTEMS JOURNAL Volume: 11 Issue: 3 Pages: 1548-1556 Published: SEP 2017

Modeling and Analysis of the Reliability of Digital Networked Control Systems Considering Networked Degradations

By: Mo, Huadong; Wang, Wei; Xie, Min; et al.

IEEE TRANSACTIONS ON AUTOMATION SCIENCE AND ENGINEERING Volume: 14 Issue: 3 Pages: 1491-1503

Published: JUL 2017

Simultaneously monitoring frequency and magnitude of events based on bivariate gamma distribution

By: Cheng, Yuan; Mukherjee, Amitava; Xie, Min

JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION Volume: 87 Issue: 9 Pages: 1723-1741

Published: JUN 2017

Using accelerated life tests data to predict warranty cost under imperfect repair

By: Zhao, Xiujie; Xie, Min

COMPUTERS & INDUSTRIAL ENGINEERING Volume: 107 Pages: 223-234 Published: MAY 2017

Monitoring the shape parameter of a Weibull renewal process

By: Zhang, Cai Wen; Ye, Zhisheng; Xie, Min

IIEE TRANSACTIONS Volume: 49 Issue: 8 Pages: 800-813 Published: 2017

An Ameliorated Improvement Factor Model for Imperfect Maintenance and Its Goodness of Fit

By: Zhang, Mimi; Xie, Min

TECHNOMETRICS Volume: 59 Issue: 2 Pages: 237-246 Published: 2017

A Dynamic-Bayesian-Network-Based Fault Diagnosis Methodology Considering Transient and Intermittent Faults

By: Cai, Baoping; Liu, Yu; Xie, Min

IEEE TRANSACTIONS ON AUTOMATION SCIENCE AND ENGINEERING Volume: 14 Issue: 1 Pages: 276-285

Published: JAN 2017

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An imperfect maintenance policy for mission-oriented systems subject to degradation and external shocks

By: Liu, Bin; Xie, Min; Xu, Zhengguo; et al.

COMPUTERS & INDUSTRIAL ENGINEERING Volume: 102 Pages: 21-32 Published: DEC 2016

A real-time fault diagnosis methodology of complex systems using object-oriented Bayesian networks
By: Cai, Baoping; Liu, Hanlin; Xie, Min
MECHANICAL SYSTEMS AND SIGNAL PROCESSING Volume: 80 Pages: 31-44 Published: DEC 1 2016

A Study of Reliability of Multi-State Systems with Two Performance Sharing Groups
By: Peng, Rui; Liu, Hanlin; Xie, Min
QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL Volume: 32 Issue: 7 Pages: 2623-2632
Published: NOV 2016

A Dynamic Approach to Performance Analysis and Reliability Improvement of Control Systems With Degraded Components
By: Mo, Huadong; Xie, Min
IEEE TRANSACTIONS ON SYSTEMS MAN CYBERNETICS-SYSTEMS Volume: 46 Issue: 10 Pages: 1404-1414
Published: OCT 2016

Reliability modeling and preventive maintenance of load-sharing systems with degrading components
By: Liu, Bin; Xie, Min; Kuo, Way
IIE TRANSACTIONS Volume: 48 Issue: 8 Pages: 699-709 Published: AUG 2016

Generalized sooner waiting time problems in a sequence of trinary trials
By: Eryilmaz, Serkan; Gong, Min; Xie, Min
STATISTICS & PROBABILITY LETTERS Volume: 115 Pages: 70-78 Published: AUG 2016

Fuzzy copula model for wind speed correlation and its application in wind curtailment evaluation
By: Sun, Can; Bie, Zhaohong; Xie, Min; et al.
RENEWABLE ENERGY Volume: 93 Pages: 68-76 Published: AUG 2016

A study of interval analysis for cold-standby system reliability optimization under parameter uncertainty
By: Wang, Wei; Xiong, Junlin; Xie, Min
COMPUTERS & INDUSTRIAL ENGINEERING Volume: 97 Pages: 93-100 Published: JUL 2016

Modeling and analysis of reliability of multi-release open source software incorporating both fault detection and correction processes
By: Yang, Jianfeng; Liu, Yu; Xie, Min; et al.
JOURNAL OF SYSTEMS AND SOFTWARE Volume: 115 Pages: 102-110 Published: MAY 2016

A hybrid risks-informed approach for the selection of supplier portfolio
By: Fang, Chao; Liao, Xiangxiang; Xie, Min
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH Volume: 54 Issue: 7 Pages: 2019-2034 Published:
APR 2 2016

Economic modelling for statistical process control subject to a general quality deterioration
By: Li, Chenglong; Su, Qin; Xie, Min
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH Volume: 54 Issue: 6 Pages: 1753-1770 Published:
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Assessing wind curtailment under different wind capacity considering the possibilistic uncertainty of wind resources

By: Sun, Can; Bie, Zhaohong; Xie, Min; et al.

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A Shrinkage Approach for Failure Rate Estimation of Rare Events

By: Xiao, Xun; Xie, Min

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Estimation procedures for grouped data - a comparative study

By: Xiao, Xun; Mukherjee, Amitava; Xie, Min

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Integrated beta model for bathtub-shaped hazard rate data

By: Lai, Chin-Diew; Jones, Geoff; Xie, Min

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Simplified Likelihood Based Goodness-of-fit Tests for the Weibull Distribution

By: Krit, Meryam; Gaudoin, Olivier; Xie, Min; et al.

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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

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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

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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.

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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

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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

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Optimal designs of the variable sample size and sampling interval X chart when process parameters are
estimated

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Cost analysis for multi-component system with failure interaction under renewing free-replacement warranty

By: Liu, Bin; Wu, Jun; Xie, Min

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2015

Optimal resource distribution between protection and redundancy considering the time and uncertainties of
attacks

By: Mo, Huadong; Xie, Min; Levitin, Gregory

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16 2015

Design of exponential control charts based on average time to signal using a sequential sampling scheme

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Effects of wind speed probabilistic and possibilistic uncertainties on generation system adequacy

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By: Jin, Tongdan; Tian, Zhigang; Xie, Min

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Stochastic modelling and analysis of degradation for highly reliable products

By: Ye, Zhi-Sheng; Xie, Min

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By: Eryilmaz, Serkan; Xie, Min

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Reliability of warm-standby systems subject to imperfect fault coverage

By: Tannous, Ola; Xing, Liudong; Peng, Rui; Xie, Min

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Volume: 228 Issue: 6 Pages: 606-620 Published: DEC 2014

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By: Liu, Bin; Xu, Zhengguo; Xie, Min; et al.

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By: Zhai, Qingqing; Yang, Jun; Xie, Min; et al.

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Accident risk assessment in marine transportation via Markov modelling and Markov Chain Monte Carlo simulation

By: Faghih-Roohi, Shahrzad; Xie, Min; Ng, Kien Ming

OCEAN ENGINEERING Volume: 91 Pages: 363-370 Published: NOV 15 2014

A condition-based maintenance strategy for heterogeneous populations

By: Zhang, Mimi; Ye, Zhisheng; Xie, Min

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An Optimal Control Procedure based on Multivariate Synthetic Cumulative Sum

By: Lee, Ming Ha; Khoo, Michael B. C.; Xie, Min

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Semiparametric Estimation of Gamma Processes for Deteriorating Products

By: Ye, Zhi-Sheng; Xie, Min; Tang, Loon-Ching; et al.

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A study of process monitoring based on inverse Gaussian distribution

By: Guo, Baocai; Wang, Bing Xing; Xie, Min

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Objective Bayes analysis of zero-inflated Poisson distribution with application to healthcare data

By: Xu, Hai-Yan; Xie, Min; Goh, Thong Ngee

IIE TRANSACTIONS Volume: 46 Issue: 8 Special Issue: SI Pages: 843-852 Published: AUG 3 2014

A Stochastic EM Algorithm for Progressively Censored Data Analysis

By: Zhang, Mimi; Ye, Zhisheng; Xie, Min

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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.

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Lower confidence limit for reliability based on grouped data using a quantile-filling algorithm

By: Zhang, Mimi; Hu, Qingpei; Xie, Min; et al.

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By: Ye, Zhi-Sheng; Chan, Ping-Shing; Xie, Min; et al.

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Bi-objective burn-in modeling and optimization

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JOINT MAINTENANCE AND SPARE COMPONENT PROVISIONING POLICY FOR k-OUT-OF-n SYSTEMS

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By: Zhang, Mimi; Xie, Min; Gaudoin, Olivier

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Reliability estimation of maritime transportation: A study of two fuzzy reliability models

By: Gaonkar, Rajesh S. Prabhu; Xie, Min; Fu, Xiuju

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Optimal structure of multi-state systems with multi-fault coverage

By: Peng, Rui; Mo, Huadong; Xie, Min; et al.

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Analyzing Highly Censored Reliability Data without Exact Failure Times: An Efficient Tool for Practitioners

By: Zhang, Cai Wen; Zhang, Tieling; Xu, Dongsheng; et al.

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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.

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An Integrated Framework for Risk Response Planning Under Resource Constraints in Large Engineering Projects

By: Fang, Chao; Marle, Franck; Xie, Min; et al.

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Life cycle reliability assessment of new products-A Bayesian model updating approach

By: Peng, Weiwen; Huang, Hong-Zhong; Li, Yanfeng; et al.

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Reference ship selection for the on-time performance benchmarking of ships

By: Gaonkar, Rajesh S. Prabhu; Xie, Min; Majumdar, Indranil

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