

S-ID	I/C	S-No	No	Session title	Session organizer	Chair	Authors	Paper title
1A1	I	11	1-11	Inequalities for order statistics and system lifetimes	Tomasz Rychlik	Tomasz Rychlik	Agneszka Goroncy Mariusz Bieniek Patrik Melnik Houda Ouerbach, Mitra Fouadrad, and Antoine Grall Chien-Yu Peng and Hsueh-Fang Ai Yili Hong and Jie Li	Bounds on the Expected Differences of Consecutive Order Statistics Based on the Increasing Failure Rate Samples Optimal Bounds on Total Time on Test for Distributions with Decreasing Density or Failure Rate Moment Comparison of Ordered Mixtures, with Applications in Reliability Theory Residual Lifetime Estimation and Stochastic Variability: A Case Study A Study of Degradation Data with Measurement Errors Spatio-temporal Modeling of Degradation Data Collected Over a Spatial Region
1B1	I	16	1-16	Modeling and Analysis of Degradation Data	William Q. Meeker	William Q. Meeker	Hiroaki Okamura and Tadashi Dohi Yasuhiro Saito and Tadashi Dohi Xiao Xiao Yanqin Lu, Ningping Li, and Jing Lin Zhilang Liu	A Note on Variational Bayes Approach for Software Reliability Growth Model with Normal Distribution Nonparametric Maximum Likelihood Estimator with Software Fault Count Data Hawer Weibull Regression Model for NHP-based Software Reliability Assessment Remaining Useful Life Prediction of Rolling Element Bearings Based on the Exponential Model Combination with Particle Filtering Application of Synchrosequencing Transform to Planetary Gearbox Fault Diagnosis under Nonstationary Conditions
1C1	I	29	1-29	Software System Reliability I	Tadashi Dohi	Tadashi Dohi	Laurent Doyen, Olivier Gaudoin, and Syamsundar Annamraju Bin Liu, Ruyei Hui, and Way Kuo Mitra Fouadrad, Christian Parosiss, and Antoine Grall Yan-Hui Lin, Yan-Fu Li, and Enrico Zio	On Geometric Reduction of Age or Intensity Models for Imperfect Maintenance Inspection Scheduling for Multi-component Systems with Hidden Failures Sensitivity Analysis for the Block Replacement Policy Reliability Analysis of Systems with Multiple Dependent Competing Degradation Processes
1D1	I	24	1-24	Prognostic and health management (PHM)	Ming-Jian Zuo & Zhilang Liu	Zhilang Liu	Sheng-Hui Shu, Chih-Chih Chang, and Zhe George Zhang Anatoly Lisnianski and Ilya Frenkel Chen Nan, Zhiheng Ye, Yisha Xiang, and Linmiao Zhang Jan Bredlich, Yisha Xiang, Tongdan Jin, and Edward Pohl Chao Fang	Optimal Imperfect Preventive Maintenance Policy for a Multi-state System with Minimal Repair and Effective Age On Sensitivity Analysis for Multi-state System by Using Li-transform Condition-based Maintenance Using the Inverse Gaussian Degradation Model Joint Planning for Preventive Maintenance and Multi-echelon Stocking Risk Clustering and Importance Ranking in Engineering Projects Statistical Analysis of Geometric Distribution for Masked Data
1E1	I	13	1-13	Maintenance Modeling I	Min XIE	Min XIE	Beiqing Gu, Xiaoling Xu, and Ronghua Wang Mauricio Guido, Fabio Postiglione, and Giampaolo Pulcini Uwe Jensen F. German Badia and Carmen Sanguesa Antonio Gómez-Ariza, Félix Belzunce, Julio Mulero and Alfonso Suárez-Llorens Hai Ha Pham and Sophie Mercier	Bayesian Estimation Procedure for the Non-homogeneous Gamma Process Reliability Prediction Using Regression Models Negative Ageing Properties for Counting Processes Arising in Virtual Age Models On a New Definition of the Multivariate IFR Notion based on the Standard Construction A Bivariate Failure Time Model, with Dependence due to Shocks and Mixed Effect
1F1	I	17	1-17	Multi-state and Continuous-time System Reliability I	Anatoly Lisnianski and Gregory Levitin	Anatoly Lisnianski	Nozer Singpurwalla Marco Scarsini, LUSS Guido Carli Alfred Müller Chen Nan, Zhiheng Ye, Yisha Xiang, and Linmiao Zhang Jan Bredlich, Yisha Xiang, Tongdan Jin, and Edward Pohl Chao Fang	On Sensitivity Analysis for Multi-state System by Using Li-transform Condition-based Maintenance Using the Inverse Gaussian Degradation Model Joint Planning for Preventive Maintenance and Multi-echelon Stocking Risk Clustering and Importance Ranking in Engineering Projects Statistical Analysis of Geometric Distribution for Masked Data
2A1	C	II-1	C-II-1	Statistical inference			Beiqing Gu, Xiaoling Xu, and Ronghua Wang Mauricio Guido, Fabio Postiglione, and Giampaolo Pulcini Uwe Jensen F. German Badia and Carmen Sanguesa Antonio Gómez-Ariza, Félix Belzunce, Julio Mulero and Alfonso Suárez-Llorens Hai Ha Pham and Sophie Mercier	A Bayesian Estimation Procedure for the Non-homogeneous Gamma Process Reliability Prediction Using Regression Models Negative Ageing Properties for Counting Processes Arising in Virtual Age Models On a New Definition of the Multivariate IFR Notion based on the Standard Construction A Bivariate Failure Time Model, with Dependence due to Shocks and Mixed Effect
2A2	C	I-11	C-I-11	Stochastic ageing			Nozer Singpurwalla Marco Scarsini, LUSS Guido Carli Alfred Müller Chen Nan, Zhiheng Ye, Yisha Xiang, and Linmiao Zhang Jan Bredlich, Yisha Xiang, Tongdan Jin, and Edward Pohl Chao Fang	On Sensitivity Analysis for Multi-state System by Using Li-transform Condition-based Maintenance Using the Inverse Gaussian Degradation Model Joint Planning for Preventive Maintenance and Multi-echelon Stocking Risk Clustering and Importance Ranking in Engineering Projects Statistical Analysis of Geometric Distribution for Masked Data
2A3	I	40	1-40	Memorial Session in Honor of Moshe Shaked	Hajun Li and Marco Scarsini	Hajun Li	Marco Scarsini, LUSS Guido Carli Alfred Müller Chen Nan, Zhiheng Ye, Yisha Xiang, and Linmiao Zhang Jan Bredlich, Yisha Xiang, Tongdan Jin, and Edward Pohl Chao Fang	Between First and Second-order Stochastic Dominance Cyber Epidemic Models with Dependence Standard Stochastic Orders and Joint Stochastic Orders: Conditions on Survival Copulas for Mutual Relationships Comparisons of Residual Lifetimes of Used Systems Failure of the Profile Likelihood Method for Semi-parametric Virtual Age Models A Two-fold Mixed Power-law Model with a Time-varying Mixture Proportion for Modeling Failure Intensity
2A4	I	34	1-34	Stochastic Dependence in Reliability	Maochao Xu	Maochao Xu	Eric Bouteier, Laurent Bordes and Laurent Doyen Ren Yan Jiang Carolina Martínez-Riquelme, Félix Belzunce, Franco Pellerrey and Saeed Zalzalah Felix Belzunce, Carolina Martínez-Riquelme and Jose M. Ruiz Tomasz Rychlik and Pawel Kozdra Chien-Wei Wu, Shih-Wen Liu, Kuo-Hao Chang and Chao-Lung Yang	Comparisons of Residual Lifetimes of Used Systems Failure of the Profile Likelihood Method for Semi-parametric Virtual Age Models A Two-fold Mixed Power-law Model with a Time-varying Mixture Proportion for Modeling Failure Intensity Comparison of Residual Lives for Dependent Random Variables Stochastic Comparisons of Relative Spacings with Applications in Reliability Optimal Evaluations of Expected L-statistics Gauged in the Gini Mean Difference Units Designing a New Two-plan Sampling System by Variables with Switching Rules
2B1	C	II-2	C-II-2	Lifetime data analysis			Shane Reese Kassandra Frenczyk, Rebecca Dickinson, Alyson Wilson, Caleb Browning, and Laura Freeman Caleb Browning, Laura Freeman, Alyson Wilson, Rebecca Dickinson, and Kassandra Frenczyk Tsai-Hung Fan and Chien-Hui Chen Yincui Tang and Pingping Wang Shun-Lin Jeng Sheng-Tsai Tseng and Nan-Jung Hsu Huan Yu and Jun Yang Changxiu Ke Takahiro Nakamura, Tomoki Akiba, Xiao Xiao and Hisashi Yamamoto Wenjun Gong and Yunxia Chen Ceki Franko and Famin Yalcin Ionescu Dorina Romina, Nicolae Brinzei and Jean-François Petit	Bayesian Hierarchical Models for Common Components across Multiple System Configurations Estimating System Reliability from Heterogeneous Data A Bayesian Reliability Analysis under Gamma Step-stress ADT Bayesian Inference for Degradation Data with one Change Point Failure Predictions for the Warranty Analysis Utilizing the Historical Data of Similar Products Combined Inference of Laboratory and Field Data with Application to Warranty Prediction for Highly-Reliable Products Circular Multi-state Correlatedly-connected Systems with Dual Constraints of m Consecutive Gaps and n Total Gaps A Note on Circular m-consecutive-k-out-of-n-F Systems A Study on Closed Formulas for Connected-(r, a)-out-of-(n, b)-F Lattice System Reliability of Multi-state Systems Considering Conditional Cascading Failure Mechanism Signatures of Some Systems Consisting of Non-Diagonal Modules Modular Approach for Dependability and Reliability Assessment of Complex Systems
2B2	C	II-4	C-II-4	Order statistics/Statistical quality control			Jorge Navarro and Francisco J. Samaniego Jan Teije Kjelley, Bo H. Lindqvist and Stein Aaserud Paul Kvan and Jye-Chyi Lu Ananda Sen and Anupam Sombonsoontavdee Vaclav Simacek and Bo H. Lindqvist Kevin Wilson and John Dugley Dingqing Zhu, Jun Yang, Rui Peng and Yu Zhao Dong Wang, Ping Jeng and Bo Guo Bermawi P. Iskandar, Henrie Husnah, Udjiana S. Pasaribu and Anil Cakravastia Richard Arnold, Stefanka Chukova and Yu Hayakawa Yves Langeron, Mitra Fouadrad and Antoine Grall Ding Huang Huang and Yikui Lin Weichang Yeh, Yi-Yun Chang, and Chyh-Ming Lai Guanghan Bai, Zhenqiang Tian, and Ming J Zuo Yili Hong Watafu Yamamoto Jin Lu and R.P.D.J. Rajapaksha Zeina Al Masry, Sophie Mercier and Ghislain Verdier Mario Hellmich Fan Sun, Tongdan Jin and Yi Ding Zhiyun Cheng, Yanning Qiao and Bo Guo Hiroshi Shida, Hirofumi Ogasuhi, Yoshinobu Higami, Hirohisa Aman and Hiroshi Takahashi Romain Lesobre, Keomany Bouvard, Christophe Berenguer, Vincent Coquemont and Anne Barros Boyan Dimitrov and Sahib Eas	Optimal Evaluations of Expected L-statistics Gauged in the Gini Mean Difference Units Designing a New Two-plan Sampling System by Variables with Switching Rules A Hierarchical Model for the Reliability of Complex Multi-component Systems Bayesian Hierarchical Models for Common Components across Multiple System Configurations Estimating System Reliability from Heterogeneous Data A Bayesian Reliability Analysis under Gamma Step-stress ADT Bayesian Inference for Degradation Data with one Change Point Failure Predictions for the Warranty Analysis Utilizing the Historical Data of Similar Products Combined Inference of Laboratory and Field Data with Application to Warranty Prediction for Highly-Reliable Products Circular Multi-state Correlatedly-connected Systems with Dual Constraints of m Consecutive Gaps and n Total Gaps A Note on Circular m-consecutive-k-out-of-n-F Systems A Study on Closed Formulas for Connected-(r, a)-out-of-(n, b)-F Lattice System Reliability of Multi-state Systems Considering Conditional Cascading Failure Mechanism Signatures of Some Systems Consisting of Non-Diagonal Modules Modular Approach for Dependability and Reliability Assessment of Complex Systems On Comparing Systems with Heterogeneous Components via Survival Signatures Comparing Systems by Distortion Functions Residuals and Functional Form in Accelerated Life Regression Models An Extended Skill Test for Disease Diagnosis Based on the Receiver Operator Characteristic Recurrent Events Under Dependent Competing Risks and Missing Cause of Failure Non-homogeneous Poisson Process with Nonparametric Frailty and Covariates Sequencing Reliability Growth Tests using Multivariate Utility Functions Reliability Evaluation of Warm Standby Systems Based on Multivalued Decision Diagram - An Automatic Approach Involvement of Dependency Uncertainties in Fault Tree Analysis Using Hybrid Approach Maintenance Contract with Dynamic Operating Condition Warranty Cost Analysis: Increasing Warranty Repair Times Controlled Systems, Failure Prediction and Maintenance Demand Satisfaction of a Hybrid Flow-shop with Completion Time Consideration A Simple Path-based Algorithm for Evaluating the Reliability of a Deteriorated Multi-State Flow Network An Improved Algorithm for Searching for Minimal Paths in Two-terminal Networks Using Degradation Data with Dynamic Covariates to do Online Monitoring Time Scales for Online Monitoring Data Optimal Decision Policy for Deteriorating Systems with On-line Monitoring in a Varying Environment Under Selectable Operations Simulation Techniques and Approximated Distribution of an Extended Gamma Process Generalized Markov Processes for Systems with Periodic Surveillance Testing and Monte Carlo Simulation Modeling Aggregate Plan Renewals with Uncertain System Installation Times Perfect Maintenance Model of Pavement Based on Markov Decision Process A Proposal of Maintenance Cost Model of Track Circuits A Design Approach for MOP-based Maintenance Policy of Multi-component Systems On the Local Dependence Structure in Politics and in Reliability Distributions
2B3	I	6	1-6	Bayesian Methods for Complex System Reliability	Alyson Q. Wilson	Alyson Q. Wilson	Shane Reese Kassandra Frenczyk, Rebecca Dickinson, Alyson Wilson, Caleb Browning, and Laura Freeman Caleb Browning, Laura Freeman, Alyson Wilson, Rebecca Dickinson, and Kassandra Frenczyk Tsai-Hung Fan and Chien-Hui Chen Yincui Tang and Pingping Wang Shun-Lin Jeng Sheng-Tsai Tseng and Nan-Jung Hsu Huan Yu and Jun Yang Changxiu Ke Takahiro Nakamura, Tomoki Akiba, Xiao Xiao and Hisashi Yamamoto Wenjun Gong and Yunxia Chen Ceki Franko and Famin Yalcin Ionescu Dorina Romina, Nicolae Brinzei and Jean-François Petit	Bayesian Hierarchical Models for Common Components across Multiple System Configurations Estimating System Reliability from Heterogeneous Data A Bayesian Reliability Analysis under Gamma Step-stress ADT Bayesian Inference for Degradation Data with one Change Point Failure Predictions for the Warranty Analysis Utilizing the Historical Data of Similar Products Combined Inference of Laboratory and Field Data with Application to Warranty Prediction for Highly-Reliable Products Circular Multi-state Correlatedly-connected Systems with Dual Constraints of m Consecutive Gaps and n Total Gaps A Note on Circular m-consecutive-k-out-of-n-F Systems A Study on Closed Formulas for Connected-(r, a)-out-of-(n, b)-F Lattice System Reliability of Multi-state Systems Considering Conditional Cascading Failure Mechanism Signatures of Some Systems Consisting of Non-Diagonal Modules Modular Approach for Dependability and Reliability Assessment of Complex Systems On Comparing Systems with Heterogeneous Components via Survival Signatures Comparing Systems by Distortion Functions Residuals and Functional Form in Accelerated Life Regression Models An Extended Skill Test for Disease Diagnosis Based on the Receiver Operator Characteristic Recurrent Events Under Dependent Competing Risks and Missing Cause of Failure Non-homogeneous Poisson Process with Nonparametric Frailty and Covariates Sequencing Reliability Growth Tests using Multivariate Utility Functions Reliability Evaluation of Warm Standby Systems Based on Multivalued Decision Diagram - An Automatic Approach Involvement of Dependency Uncertainties in Fault Tree Analysis Using Hybrid Approach Maintenance Contract with Dynamic Operating Condition Warranty Cost Analysis: Increasing Warranty Repair Times Controlled Systems, Failure Prediction and Maintenance Demand Satisfaction of a Hybrid Flow-shop with Completion Time Consideration A Simple Path-based Algorithm for Evaluating the Reliability of a Deteriorated Multi-State Flow Network An Improved Algorithm for Searching for Minimal Paths in Two-terminal Networks Using Degradation Data with Dynamic Covariates to do Online Monitoring Time Scales for Online Monitoring Data Optimal Decision Policy for Deteriorating Systems with On-line Monitoring in a Varying Environment Under Selectable Operations Simulation Techniques and Approximated Distribution of an Extended Gamma Process Generalized Markov Processes for Systems with Periodic Surveillance Testing and Monte Carlo Simulation Modeling Aggregate Plan Renewals with Uncertain System Installation Times Perfect Maintenance Model of Pavement Based on Markov Decision Process A Proposal of Maintenance Cost Model of Track Circuits A Design Approach for MOP-based Maintenance Policy of Multi-component Systems On the Local Dependence Structure in Politics and in Reliability Distributions
2B4	I	7	1-7	Bayesian Reliability inference and Warranty Predictions	Sheng-Tsai Tseng	Sheng-Tsai Tseng	Shane Reese Kassandra Frenczyk, Rebecca Dickinson, Alyson Wilson, Caleb Browning, and Laura Freeman Caleb Browning, Laura Freeman, Alyson Wilson, Rebecca Dickinson, and Kassandra Frenczyk Tsai-Hung Fan and Chien-Hui Chen Yincui Tang and Pingping Wang Shun-Lin Jeng Sheng-Tsai Tseng and Nan-Jung Hsu Huan Yu and Jun Yang Changxiu Ke Takahiro Nakamura, Tomoki Akiba, Xiao Xiao and Hisashi Yamamoto Wenjun Gong and Yunxia Chen Ceki Franko and Famin Yalcin Ionescu Dorina Romina, Nicolae Brinzei and Jean-François Petit	Bayesian Hierarchical Models for Common Components across Multiple System Configurations Estimating System Reliability from Heterogeneous Data A Bayesian Reliability Analysis under Gamma Step-stress ADT Bayesian Inference for Degradation Data with one Change Point Failure Predictions for the Warranty Analysis Utilizing the Historical Data of Similar Products Combined Inference of Laboratory and Field Data with Application to Warranty Prediction for Highly-Reliable Products Circular Multi-state Correlatedly-connected Systems with Dual Constraints of m Consecutive Gaps and n Total Gaps A Note on Circular m-consecutive-k-out-of-n-F Systems A Study on Closed Formulas for Connected-(r, a)-out-of-(n, b)-F Lattice System Reliability of Multi-state Systems Considering Conditional Cascading Failure Mechanism Signatures of Some Systems Consisting of Non-Diagonal Modules Modular Approach for Dependability and Reliability Assessment of Complex Systems On Comparing Systems with Heterogeneous Components via Survival Signatures Comparing Systems by Distortion Functions Residuals and Functional Form in Accelerated Life Regression Models An Extended Skill Test for Disease Diagnosis Based on the Receiver Operator Characteristic Recurrent Events Under Dependent Competing Risks and Missing Cause of Failure Non-homogeneous Poisson Process with Nonparametric Frailty and Covariates Sequencing Reliability Growth Tests using Multivariate Utility Functions Reliability Evaluation of Warm Standby Systems Based on Multivalued Decision Diagram - An Automatic Approach Involvement of Dependency Uncertainties in Fault Tree Analysis Using Hybrid Approach Maintenance Contract with Dynamic Operating Condition Warranty Cost Analysis: Increasing Warranty Repair Times Controlled Systems, Failure Prediction and Maintenance Demand Satisfaction of a Hybrid Flow-shop with Completion Time Consideration A Simple Path-based Algorithm for Evaluating the Reliability of a Deteriorated Multi-State Flow Network An Improved Algorithm for Searching for Minimal Paths in Two-terminal Networks Using Degradation Data with Dynamic Covariates to do Online Monitoring Time Scales for Online Monitoring Data Optimal Decision Policy for Deteriorating Systems with On-line Monitoring in a Varying Environment Under Selectable Operations Simulation Techniques and Approximated Distribution of an Extended Gamma Process Generalized Markov Processes for Systems with Periodic Surveillance Testing and Monte Carlo Simulation Modeling Aggregate Plan Renewals with Uncertain System Installation Times Perfect Maintenance Model of Pavement Based on Markov Decision Process A Proposal of Maintenance Cost Model of Track Circuits A Design Approach for MOP-based Maintenance Policy of Multi-component Systems On the Local Dependence Structure in Politics and in Reliability Distributions
2C1	C	I-2	C-I-2	"k-out-of-n" systems			Jorge Navarro and Francisco J. Samaniego Jan Teije Kjelley, Bo H. Lindqvist and Stein Aaserud Paul Kvan and Jye-Chyi Lu Ananda Sen and Anupam Sombonsoontavdee Vaclav Simacek and Bo H. Lindqvist Kevin Wilson and John Dugley Dingqing Zhu, Jun Yang, Rui Peng and Yu Zhao Dong Wang, Ping Jeng and Bo Guo Bermawi P. Iskandar, Henrie Husnah, Udjiana S. Pasaribu and Anil Cakravastia Richard Arnold, Stefanka Chukova and Yu Hayakawa Yves Langeron, Mitra Fouadrad and Antoine Grall Ding Huang Huang and Yikui Lin Weichang Yeh, Yi-Yun Chang, and Chyh-Ming Lai Guanghan Bai, Zhenqiang Tian, and Ming J Zuo Yili Hong Watafu Yamamoto Jin Lu and R.P.D.J. Rajapaksha Zeina Al Masry, Sophie Mercier and Ghislain Verdier Mario Hellmich Fan Sun, Tongdan Jin and Yi Ding Zhiyun Cheng, Yanning Qiao and Bo Guo Hiroshi Shida, Hirofumi Ogasuhi, Yoshinobu Higami, Hirohisa Aman and Hiroshi Takahashi Romain Lesobre, Keomany Bouvard, Christophe Berenguer, Vincent Coquemont and Anne Barros Boyan Dimitrov and Sahib Eas	On Comparing Systems with Heterogeneous Components via Survival Signatures Comparing Systems by Distortion Functions Residuals and Functional Form in Accelerated Life Regression Models An Extended Skill Test for Disease Diagnosis Based on the Receiver Operator Characteristic Recurrent Events Under Dependent Competing Risks and Missing Cause of Failure Non-homogeneous Poisson Process with Nonparametric Frailty and Covariates Sequencing Reliability Growth Tests using Multivariate Utility Functions Reliability Evaluation of Warm Standby Systems Based on Multivalued Decision Diagram - An Automatic Approach Involvement of Dependency Uncertainties in Fault Tree Analysis Using Hybrid Approach Maintenance Contract with Dynamic Operating Condition Warranty Cost Analysis: Increasing Warranty Repair Times Controlled Systems, Failure Prediction and Maintenance Demand Satisfaction of a Hybrid Flow-shop with Completion Time Consideration A Simple Path-based Algorithm for Evaluating the Reliability of a Deteriorated Multi-State Flow Network An Improved Algorithm for Searching for Minimal Paths in Two-terminal Networks Using Degradation Data with Dynamic Covariates to do Online Monitoring Time Scales for Online Monitoring Data Optimal Decision Policy for Deteriorating Systems with On-line Monitoring in a Varying Environment Under Selectable Operations Simulation Techniques and Approximated Distribution of an Extended Gamma Process Generalized Markov Processes for Systems with Periodic Surveillance Testing and Monte Carlo Simulation Modeling Aggregate Plan Renewals with Uncertain System Installation Times Perfect Maintenance Model of Pavement Based on Markov Decision Process A Proposal of Maintenance Cost Model of Track Circuits A Design Approach for MOP-based Maintenance Policy of Multi-component Systems On the Local Dependence Structure in Politics and in Reliability Distributions
2C2	C	II-3	C-II-3	System Reliability			Jorge Navarro and Francisco J. Samaniego Jan Teije Kjelley, Bo H. Lindqvist and Stein Aaserud Paul Kvan and Jye-Chyi Lu Ananda Sen and Anupam Sombonsoontavdee Vaclav Simacek and Bo H. Lindqvist Kevin Wilson and John Dugley Dingqing Zhu, Jun Yang, Rui Peng and Yu Zhao Dong Wang, Ping Jeng and Bo Guo Bermawi P. Iskandar, Henrie Husnah, Udjiana S. Pasaribu and Anil Cakravastia Richard Arnold, Stefanka Chukova and Yu Hayakawa Yves Langeron, Mitra Fouadrad and Antoine Grall Ding Huang Huang and Yikui Lin Weichang Yeh, Yi-Yun Chang, and Chyh-Ming Lai Guanghan Bai, Zhenqiang Tian, and Ming J Zuo Yili Hong Watafu Yamamoto Jin Lu and R.P.D.J. Rajapaksha Zeina Al Masry, Sophie Mercier and Ghislain Verdier Mario Hellmich Fan Sun, Tongdan Jin and Yi Ding Zhiyun Cheng, Yanning Qiao and Bo Guo Hiroshi Shida, Hirofumi Ogasuhi, Yoshinobu Higami, Hirohisa Aman and Hiroshi Takahashi Romain Lesobre, Keomany Bouvard, Christophe Berenguer, Vincent Coquemont and Anne Barros Boyan Dimitrov and Sahib Eas	On Comparing Systems with Heterogeneous Components via Survival Signatures Comparing Systems by Distortion Functions Residuals and Functional Form in Accelerated Life Regression Models An Extended Skill Test for Disease Diagnosis Based on the Receiver Operator Characteristic Recurrent Events Under Dependent Competing Risks and Missing Cause of Failure Non-homogeneous Poisson Process with Nonparametric Frailty and Covariates Sequencing Reliability Growth Tests using Multivariate Utility Functions Reliability Evaluation of Warm Standby Systems Based on Multivalued Decision Diagram - An Automatic Approach Involvement of Dependency Uncertainties in Fault Tree Analysis Using Hybrid Approach Maintenance Contract with Dynamic Operating Condition Warranty Cost Analysis: Increasing Warranty Repair Times Controlled Systems, Failure Prediction and Maintenance Demand Satisfaction of a Hybrid Flow-shop with Completion Time Consideration A Simple Path-based Algorithm for Evaluating the Reliability of a Deteriorated Multi-State Flow Network An Improved Algorithm for Searching for Minimal Paths in Two-terminal Networks Using Degradation Data with Dynamic Covariates to do Online Monitoring Time Scales for Online Monitoring Data Optimal Decision Policy for Deteriorating Systems with On-line Monitoring in a Varying Environment Under Selectable Operations Simulation Techniques and Approximated Distribution of an Extended Gamma Process Generalized Markov Processes for Systems with Periodic Surveillance Testing and Monte Carlo Simulation Modeling Aggregate Plan Renewals with Uncertain System Installation Times Perfect Maintenance Model of Pavement Based on Markov Decision Process A Proposal of Maintenance Cost Model of Track Circuits A Design Approach for MOP-based Maintenance Policy of Multi-component Systems On the Local Dependence Structure in Politics and in Reliability Distributions
2C3	I	38	1-38	System reliability and life testing	Bo Henry Lindqvist	Bo Henry Lindqvist	Jorge Navarro and Francisco J. Samaniego Jan Teije Kjelley, Bo H. Lindqvist and Stein Aaserud Paul Kvan and Jye-Chyi Lu Ananda Sen and Anupam Sombonsoontavdee Vaclav Simacek and Bo H. Lindqvist Kevin Wilson and John Dugley Dingqing Zhu, Jun Yang, Rui Peng and Yu Zhao Dong Wang, Ping Jeng and Bo Guo Bermawi P. Iskandar, Henrie Husnah, Udjiana S. Pasaribu and Anil Cakravastia Richard Arnold, Stefanka Chukova and Yu Hayakawa Yves Langeron, Mitra Fouadrad and Antoine Grall Ding Huang Huang and Yikui Lin Weichang Yeh, Yi-Yun Chang, and Chyh-Ming Lai Guanghan Bai, Zhenqiang Tian, and Ming J Zuo Yili Hong Watafu Yamamoto Jin Lu and R.P.D.J. Rajapaksha Zeina Al Masry, Sophie Mercier and Ghislain Verdier Mario Hellmich Fan Sun, Tongdan Jin and Yi Ding Zhiyun Cheng, Yanning Qiao and Bo Guo Hiroshi Shida, Hirofumi Ogasuhi, Yoshinobu Higami, Hirohisa Aman and Hiroshi Takahashi Romain Lesobre, Keomany Bouvard, Christophe Berenguer, Vincent Coquemont and Anne Barros Boyan Dimitrov and Sahib Eas	On Comparing Systems with Heterogeneous Components via Survival Signatures Comparing Systems by Distortion Functions Residuals and Functional Form in Accelerated Life Regression Models An Extended Skill Test for Disease Diagnosis Based on the Receiver Operator Characteristic Recurrent Events Under Dependent Competing Risks and Missing Cause of Failure Non-homogeneous Poisson Process with Nonparametric Frailty and Covariates Sequencing Reliability Growth Tests using Multivariate Utility Functions Reliability Evaluation of Warm Standby Systems Based on Multivalued Decision Diagram - An Automatic Approach Involvement of Dependency Uncertainties in Fault Tree Analysis Using Hybrid Approach Maintenance Contract with Dynamic Operating Condition Warranty Cost Analysis: Increasing Warranty Repair Times Controlled Systems, Failure Prediction and Maintenance Demand Satisfaction of a Hybrid Flow-shop with Completion Time Consideration A Simple Path-based Algorithm for Evaluating the Reliability of a Deteriorated Multi-State Flow Network An Improved Algorithm for Searching for Minimal Paths in Two-terminal Networks Using Degradation Data with Dynamic Covariates to do Online Monitoring Time Scales for Online Monitoring Data Optimal Decision Policy for Deteriorating Systems with On-line Monitoring in a Varying Environment Under Selectable Operations Simulation Techniques and Approximated Distribution of an Extended Gamma Process Generalized Markov Processes for Systems with Periodic Surveillance Testing and Monte Carlo Simulation Modeling Aggregate Plan Renewals with Uncertain System Installation Times Perfect Maintenance Model of Pavement Based on Markov Decision Process A Proposal of Maintenance Cost Model of Track Circuits A Design Approach for MOP-based Maintenance Policy of Multi-component Systems On the Local Dependence Structure in Politics and in Reliability Distributions
2C4	I	21	1-21	New Approaches in Reliability Estimation and Diagnostic Testing	Bo Henry Lindqvist	Bo Henry Lindqvist	Jorge Navarro and Francisco J. Samaniego Jan Teije Kjelley, Bo H. Lindqvist and Stein Aaserud Paul Kvan and Jye-Chyi Lu Ananda Sen and Anupam Sombonsoontavdee Vaclav Simacek and Bo H. Lindqvist Kevin Wilson and John Dugley Dingqing Zhu, Jun Yang, Rui Peng and Yu Zhao Dong Wang, Ping Jeng and Bo Guo Bermawi P. Iskandar, Henrie Husnah, Udjiana S. Pasaribu and Anil Cakravastia Richard Arnold, Stefanka Chukova and Yu Hayakawa Yves Langeron, Mitra Fouadrad and Antoine Grall Ding Huang Huang and Yikui Lin Weichang Yeh, Yi-Yun Chang, and Chyh-Ming Lai Guanghan Bai, Zhenqiang Tian, and Ming J Zuo Yili Hong Watafu Yamamoto Jin Lu and R.P.D.J. Rajapaksha Zeina Al Masry, Sophie Mercier and Ghislain Verdier Mario Hellmich Fan Sun, Tongdan Jin and Yi Ding Zhiyun Cheng, Yanning Qiao and Bo Guo Hiroshi Shida, Hirofumi Ogasuhi, Yoshinobu Higami, Hirohisa Aman and Hiroshi Takahashi Romain Lesobre, Keomany Bouvard, Christophe Berenguer, Vincent Coquemont and Anne Barros Boyan Dimitrov and Sahib Eas	On Comparing Systems with Heterogeneous Components via Survival Signatures Comparing Systems by Distortion Functions Residuals and Functional Form in Accelerated Life Regression Models An Extended Skill Test for Disease Diagnosis Based on the Receiver Operator Characteristic Recurrent Events Under Dependent Competing Risks and Missing Cause of Failure Non-homogeneous Poisson Process with Nonparametric Frailty and Covariates Sequencing Reliability Growth Tests using Multivariate Utility Functions Reliability Evaluation of Warm Standby Systems Based on Multivalued Decision Diagram - An Automatic Approach Involvement of Dependency Uncertainties in Fault Tree Analysis Using Hybrid Approach Maintenance Contract with Dynamic Operating Condition Warranty Cost Analysis: Increasing Warranty Repair Times Controlled Systems, Failure Prediction and Maintenance Demand Satisfaction of a Hybrid Flow-shop with Completion Time Consideration A Simple Path-based Algorithm for Evaluating the Reliability of a Deteriorated Multi-State Flow Network An Improved Algorithm for Searching for Minimal Paths in Two-terminal Networks Using Degradation Data with Dynamic Covariates to do Online Monitoring Time Scales for Online Monitoring Data Optimal Decision Policy for Deteriorating Systems with On-line Monitoring in a Varying Environment Under Selectable Operations Simulation Techniques and Approximated Distribution of an Extended Gamma Process Generalized Markov Processes for Systems with Periodic Surveillance Testing and Monte Carlo Simulation Modeling Aggregate Plan Renewals with Uncertain System Installation Times Perfect Maintenance Model of Pavement Based on Markov Decision Process A Proposal of Maintenance Cost Model of Track Circuits A Design Approach for MOP-based Maintenance Policy of Multi-component Systems On the Local Dependence Structure in Politics and in Reliability Distributions
2D1	C	I-6	C-I-6	Decision making in reliability			Jorge Navarro and Francisco J. Samaniego Jan Teije Kjelley, Bo H. Lindqvist and Stein Aaserud Paul Kvan and Jye-Chyi Lu Ananda Sen and Anupam Sombonsoontavdee Vaclav Simacek and Bo H. Lindqvist Kevin Wilson and John Dugley Dingqing Zhu, Jun Yang, Rui Peng and Yu Zhao Dong Wang, Ping Jeng and Bo Guo Bermawi P. Iskandar, Henrie Husnah, Udjiana S. Pasaribu and Anil Cakravastia Richard Arnold, Stefanka Chukova and Yu Hayakawa Yves Langeron, Mitra Fouadrad and Antoine Grall Ding Huang Huang and Yikui Lin Weichang Yeh, Yi-Yun Chang, and Chyh-Ming Lai Guanghan Bai, Zhenqiang Tian, and Ming J Zuo Yili Hong Watafu Yamamoto Jin Lu and R.P.D.J. Rajapaksha Zeina Al Masry, Sophie Mercier and Ghislain Verdier Mario Hellmich Fan Sun, Tongdan Jin and Yi Ding Zhiyun Cheng, Yanning Qiao and Bo Guo Hiroshi Shida, Hirofumi Ogasuhi, Yoshinobu Higami, Hirohisa Aman and Hiroshi Takahashi Romain Lesobre, Keomany Bouvard, Christophe Berenguer, Vincent Coquemont and Anne Barros Boyan Dimitrov and Sahib Eas	On Comparing Systems with Heterogeneous Components via Survival Signatures Comparing Systems by Distortion Functions Residuals and Functional Form in Accelerated Life Regression Models An Extended Skill Test for Disease Diagnosis Based on the Receiver Operator Characteristic Recurrent Events Under Dependent Competing Risks and Missing Cause of Failure Non-homogeneous Poisson Process with Nonparametric Frailty and Covariates Sequencing Reliability Growth Tests using Multivariate Utility Functions Reliability Evaluation of Warm Standby Systems Based on Multivalued Decision Diagram - An Automatic Approach Involvement of Dependency Uncertainties in Fault Tree Analysis Using Hybrid Approach Maintenance Contract with Dynamic Operating Condition Warranty Cost Analysis: Increasing Warranty Repair Times Controlled Systems, Failure Prediction and Maintenance Demand Satisfaction of a Hybrid Flow-shop with Completion Time Consideration A Simple Path-based Algorithm for Evaluating the Reliability of a Deteriorated Multi-State Flow Network An Improved Algorithm for Searching for Minimal Paths in Two-terminal Networks Using Degradation Data with Dynamic Covariates to do Online Monitoring Time Scales for Online Monitoring Data Optimal Decision Policy for Deteriorating Systems with On-line Monitoring in a Varying Environment Under Selectable Operations Simulation Techniques and Approximated Distribution of an Extended Gamma Process Generalized Markov Processes for Systems with Periodic Surveillance Testing and Monte Carlo Simulation Modeling Aggregate Plan Renewals with Uncertain System Installation Times Perfect Maintenance Model of Pavement Based on Markov Decision Process A Proposal of Maintenance Cost Model of Track Circuits A Design Approach for MOP-based Maintenance Policy of Multi-component Systems On the Local Dependence Structure in Politics and in Reliability Distributions
2D2	C	I-10	C-I-10	Maintenance/Repair models			Jorge Navarro and Francisco J. Samaniego Jan Teije Kjelley, Bo H. Lindqvist and Stein Aaserud Paul Kvan and Jye-Chyi Lu Ananda Sen and Anupam Sombonsoontavdee Vaclav Simacek and Bo H. Lindqvist Kevin Wilson and John Dugley Dingqing Zhu, Jun Yang, Rui Peng and Yu Zhao Dong Wang, Ping Jeng and Bo Guo Bermawi P. Iskandar, Henrie Husnah, Udjiana S. Pasaribu and Anil Cakravastia Richard Arnold, Stefanka Chukova and Yu Hayakawa Yves Langeron, Mitra Fouadrad and Antoine Grall Ding Huang Huang and Yikui Lin Weichang Yeh, Yi-Yun Chang, and Chyh-Ming Lai Guanghan Bai, Zhenqiang Tian, and Ming J Zuo Yili Hong Watafu Yamamoto Jin Lu and R.P.D.J. Rajapaksha Zeina Al Masry, Sophie Mercier and Ghislain Verdier Mario Hellmich Fan Sun, Tongdan Jin and Yi Ding Zhiyun Cheng, Yanning Qiao and Bo Guo Hiroshi Shida, Hirofumi Ogasuhi, Yoshinobu Higami, Hirohisa Aman and Hiroshi Takahashi Romain Lesobre, Keomany Bouvard, Christophe Berenguer, Vincent Coquemont and Anne Barros Boyan Dimitrov and Sahib Eas	On Comparing Systems with Heterogeneous Components via Survival Signatures Comparing Systems by Distortion Functions Residuals and Functional Form in Accelerated Life Regression Models An Extended Skill Test for Disease Diagnosis Based on the Receiver Operator Characteristic Recurrent Events Under Dependent Competing Risks and Missing Cause of Failure Non-homogeneous Poisson Process with Nonparametric Frailty and Covariates Sequencing Reliability Growth Tests using Multivariate Utility Functions Reliability Evaluation of Warm Standby Systems Based on Multivalued Decision Diagram - An Automatic Approach Involvement of Dependency Uncertainties in Fault Tree Analysis Using Hybrid Approach Maintenance Contract with Dynamic Operating Condition Warranty Cost Analysis: Increasing Warranty Repair Times Controlled Systems, Failure Prediction and Maintenance Demand Satisfaction of a Hybrid Flow-shop with Completion Time Consideration A Simple Path-based Algorithm for Evaluating the Reliability of a Deteriorated Multi-State Flow Network An Improved Algorithm for Searching for Minimal Paths in Two-terminal Networks Using Degradation Data with Dynamic Covariates to do Online Monitoring Time Scales for Online Monitoring Data Optimal Decision Policy for Deteriorating Systems with On-line Monitoring in a Varying Environment Under Selectable Operations Simulation Techniques and Approximated Distribution of an Extended Gamma Process Generalized Markov Processes for Systems with Periodic Surveillance Testing and Monte Carlo Simulation Modeling Aggregate Plan Renewals with Uncertain System Installation Times Perfect Maintenance Model of Pavement Based on Markov Decision Process A Proposal of Maintenance Cost Model of Track Circuits A Design Approach for MOP-based Maintenance Policy of Multi-component Systems On the Local Dependence Structure in Politics and in Reliability Distributions
2D3	I	20	1-20	Network Reliability Analysis	Ming-Jian Zuo	Ming Zuo	Jorge Navarro and Francisco J. Samaniego Jan Teije Kjelley, Bo H. Lindqvist and Stein Aaserud Paul Kvan and Jye-Chyi Lu Ananda Sen and Anupam Sombonsoontavdee Vaclav Simacek and Bo H. Lindqvist Kevin Wilson and John Dugley Dingqing Zhu, Jun Yang, Rui Peng and Yu Zhao Dong Wang, Ping Jeng and Bo Guo Bermawi P. Iskandar, Henrie Husnah, Udjiana S. Pasaribu and Anil Cakravastia Richard Arnold, Stefanka Chukova and Yu Hayakawa Yves Langeron, Mitra Fouadrad and Antoine Grall Ding Huang Huang and Yikui Lin Weichang Yeh, Yi-Yun Chang, and Chyh-Ming Lai Guanghan Bai, Zhenqiang Tian, and Ming J Zuo Yili Hong Watafu Yamamoto Jin Lu and R.P.D.J. Rajapaksha Zeina Al Masry, Sophie Mercier and Ghislain Verdier Mario Hellmich Fan Sun, Tongdan Jin and Yi Ding Zhiyun Cheng, Yanning Qiao and Bo Guo Hiroshi Shida, Hirofumi Ogasuhi, Yoshinobu Higami, Hirohisa Aman and Hiroshi Takahashi Romain Lesobre, Keomany Bouvard, Christophe Berenguer, Vincent Coquemont and Anne Barros Boyan Dimitrov and Sahib Eas	On Comparing Systems with Heterogeneous Components via Survival Signatures Comparing Systems by Distortion Functions Residuals and Functional Form in Accelerated Life Regression Models An Extended Skill Test for Disease Diagnosis Based on the Receiver Operator Characteristic Recurrent Events Under Dependent Competing Risks and Missing Cause of Failure Non-homogeneous Poisson Process with Nonparametric Frailty and Covariates Sequencing Reliability Growth Tests using Multivariate Utility Functions Reliability Evaluation of Warm Standby Systems Based on Multivalued Decision Diagram - An Automatic Approach Involvement of Dependency Uncertainties in Fault Tree Analysis Using Hybrid Approach Maintenance Contract with Dynamic Operating Condition Warranty Cost Analysis: Increasing Warranty Repair Times Controlled Systems, Failure Prediction and Maintenance Demand Satisfaction of a Hybrid Flow-shop with Completion Time Consideration A Simple Path-based Algorithm for Evaluating the Reliability of a Deteriorated Multi-State Flow Network An Improved Algorithm for Searching for Minimal Paths in Two-terminal Networks Using Degradation Data with Dynamic Covariates to do Online Monitoring Time Scales for Online Monitoring Data Optimal Decision Policy for Deteriorating Systems with On-line Monitoring in a Varying Environment Under Selectable Operations Simulation Techniques and Approximated Distribution of an Extended Gamma Process Generalized Markov Processes for Systems with Periodic Surveillance Testing and Monte Carlo Simulation Modeling Aggregate Plan Renewals with Uncertain System Installation Times Perfect Maintenance Model of Pavement Based on Markov Decision Process A Proposal of Maintenance Cost Model of Track Circuits A Design Approach for MOP-based Maintenance Policy of Multi-component Systems On the Local Dependence Structure in Politics and in Reliability Distributions
2D4	I	22	1-22	Online Monitoring	Kazuyuki Suzuki	Kazuyuki Suzuki	Jorge Navarro and Francisco J. Samaniego Jan Teije Kjelley, Bo H. Lindqvist and Stein Aaserud Paul Kvan and Jye-Chyi Lu Ananda Sen and Anupam Sombonsoontavdee Vaclav Simacek and Bo H. Lindqvist Kevin Wilson and John Dugley Dingqing Zhu, Jun Yang, Rui Peng and Yu Zhao Dong Wang, Ping Jeng and Bo Guo Bermawi P. Iskandar, Henrie Husnah, Udjiana S. Pasaribu and Anil Cakravastia Richard Arnold, Stefanka Chukova and Yu Hayakawa Yves Langeron, Mitra Fouadrad and Antoine Grall Ding Huang Huang and Yikui Lin Weichang Yeh, Yi-Yun Chang, and Chyh-Ming Lai Guanghan Bai, Zhenqiang Tian, and Ming J Zuo Yili Hong Watafu Yamamoto Jin Lu and R.P.D.J. Rajapaksha Zeina Al Masry, Sophie Mercier and Ghislain Verdier Mario Hellmich Fan Sun, Tongdan Jin and Yi Ding Zhiyun Cheng, Yanning Qiao and Bo Guo Hiroshi Shida, Hirofumi Ogasuhi, Yoshinobu Higami, Hirohisa Aman and Hiroshi Takahashi Romain Lesobre, Keomany Bouvard, Christophe Berenguer, Vincent Coquemont and Anne Barros Boyan Dimitrov and Sahib Eas	On Comparing Systems with Heterogeneous Components via Survival Signatures Comparing Systems by Distortion Functions Residuals and Functional Form in Accelerated Life Regression Models An Extended Skill Test for Disease Diagnosis Based on the Receiver Operator Characteristic Recurrent Events Under Dependent Competing Risks and Missing Cause of Failure Non-homogeneous Poisson Process with Nonparametric Frailty and Covariates Sequencing Reliability Growth Tests using Multivariate Utility Functions Reliability Evaluation of Warm Standby Systems Based on Multivalued Decision Diagram - An Automatic Approach Involvement of Dependency Uncertainties in Fault Tree Analysis Using Hybrid Approach Maintenance Contract with Dynamic Operating Condition Warranty Cost Analysis: Increasing Warranty Repair Times Controlled Systems, Failure Prediction and Maintenance Demand Satisfaction of a Hybrid Flow-shop with Completion Time Consideration A Simple Path-based Algorithm for Evaluating the Reliability of a Deteriorated Multi-State Flow Network An Improved Algorithm for Searching for Minimal Paths in Two-terminal Networks Using Degradation Data with Dynamic Covariates to do Online Monitoring Time Scales for Online Monitoring Data Optimal Decision Policy for Deteriorating Systems with On-line Monitoring in a Varying Environment Under Selectable Operations Simulation Techniques and Approximated Distribution of an Extended Gamma Process Generalized Markov Processes for Systems with Periodic Surveillance Testing and Monte Carlo Simulation Modeling Aggregate Plan Renewals with Uncertain System Installation Times Perfect Maintenance Model of Pavement Based on Markov Decision Process A Proposal of Maintenance Cost Model of Track Circuits A Design Approach for MOP-based Maintenance Policy of Multi-component Systems On the Local Dependence Structure in Politics and in Reliability Distributions
2E1	C	I-1	C-I-1	Stochastic processes in reliability			Jorge Navarro and Francisco J. Samaniego Jan Teije Kjelley, Bo H. Lindqvist and Stein Aaserud Paul Kvan and Jye-Chyi Lu Ananda Sen and Anupam Sombonsoontavdee Vaclav Simacek and Bo H. Lindqvist Kevin Wilson and John Dugley Dingqing Zhu, Jun Yang, Rui Peng and Yu Zhao Dong Wang, Ping Jeng and Bo Guo Bermawi P. Iskandar, Henrie Husnah, Udjiana S. Pasaribu and Anil Cakravastia Richard Arnold, Stefanka Chukova and Yu Hayakawa	

						Satoshi Mizutani and Toshio Nakagawa	Extended Replacement Overtime Policies for Job with a Finite Number of Works
3F1	I	3	I-3	Aging and maintenance in technical and biological systems	Maxim Finkelstein	Maxim Finkelstein	Preventive Maintenance of Systems Described by Signatures
						Mahmoud Shafiq, Maxim Finkelstein, and Christophe Berenguer	On Stochastic Modelling of Maintenance for Continuously Monitored Systems Subject to Multiple Deterioration and External Shocks
						Trifon I. Misov and James W. Vaupel	Fixed-frailty Modeling Implications of Mortality Plateaus
						Zongke He, Zhengrong Shen and Dabin Cheng	Design of Reliability Testing Plans for a Condensed System Based on Equal Acceptance Probability
						Cheng-Ta Yeh	Reliability Evaluation for a Multi-source Multi-sink Logistics Network with Stochastic Capacity
3F2	C	I-7(5)	C-I-7(5)	Decision making in reliability		Francisco Germán Badía and Carmen Sangüesa	Inventory Models with Nonlinear Shortage Costs and Stochastic Lead Times and Quivering Systems: Applications of Shape Properties of Randomly Stopped Counting Process
						Yunyan Xing and Ping Jiang	A Sequential Testing Method for Binomial Products in Varying Population Development
						Nasser Abouqas and Krishnan Subramaniam	Enhance the Prediction of Software Failure Times by Removing the Outliers
						Hongyan Dui and Liwei Chen	Integrated Importance Measure of System Survivability in Multi-state Protection Systems
						Xujie Jia and Gang Li	Reliability Analysis of the Life Dependent Safety-critical System with Three-States Based on Copula
						Lirong Cui, Yan Li, and Jingyuan Shen	On Some Problems for Aggregated Stochastic Processes in Reliability
						Dingqiang Cai & Shubin Qi	Reliability Analysis of a Three Node WDN Model
						Ronghua Wang, Xiaoling Xu and Beiqing Gu	Depiction of Exponential Distribution by Using Order Statistics
						Syamaundar Anamraju	Assessing Reliability of Large and Complex Industrial Repairable Systems Using Big Data
						Wei-Chang Yeh, Hsu-Sheng Wu and Chyh-Ming Lai	A Novel 2D Binary-State Angle Network and its Reliability Evaluation
						S. B. Singh and Khushal Singh Bohra	Evaluating Fuzzy System Reliability Using Intuitionistic Fuzzy Exponential Lifetime Distribution
						Zhiguo Zeng, Qingyuan Zhang, Yunxia Chen and Rui Kang	Reliability Box as a Tool for Reliability Analysis in Presence of Epistemic Uncertainty
						Korol Bayramoglu	On Reliability and MRL Functions of Coherent Systems with Dependent Components in Active Redundancy
						Bharatendra Rai	Warranty Spend Prediction for Failures Influenced by Seasonality
						Xin Wang and Zhisheng Ye	Warranty Data Analysis Concerning Customer's Reporting Behaviour
						Stefanka Chukova and Yu Hayakawa	Auto Warranty Data: Estimation of the Mean Cumulative Function
						Serkan Eryilmaz	Some Results on Aging Properties and Stochastic Orders of Multi-state Systems
						Fotios Milienos, Narayanaswamy Balakrishnan and Markos Koutras	On the Start-up Demonstration Test Theory
						Markos Koutras, Narayanaswamy Balakrishnan, and Fotios Milienos	Mixed Start-up Demonstration Tests
						Mitsuhiko Imamura and Mitsutaka Kimura	Optimal Management Policy for a Control System Considering Security
						Syousi Nakamura, Xufeng Zhao, and Toshio Nakagawa	Optimal Server Number of m-out-of-n System with n Servers for m Jobs
						Shunsuke Takamoto and Tadashi Dohi	Interval Estimation of Optimal Software Rejuvenation Policy
						Inmaculada T. Castro, Ji Hwan Cha and Carmen Sangüesa	Assessment of a Condition-based Maintenance Strategy for a System Subject to Degradation Failures and Catastrophic Failures Sharing an Initial Common Sour
						Christian Parosin	Inference for the Wiener Process with Random Inflation Time
						Sophie Mercier, Anne Barros and Antoine Grall	A Multivariate Degradation Model with Dependence Due to Shocks
						Tim Bedford	Managing Systemic Reliability Challenges for Offshore Windfarms
						Tim Bedford	An Exact Method for Solving Loop Structured System in Reliability Analysis
						Nikolaos Limnios	
						Vasily Krivtsov, Michael Frankstein, and Alex Yevkin	Recurrent Repair Analysis of Sibling Components
						Bu Henry Lindqvist and Zeytu Gashaw Asfaw	Extending Minimal Repair Models for Repairable Systems: A Comparison of Dynamic and Heterogeneous Extensions of a Nonhomogeneous Poisson Process
						Edsel A. Pena and Piaomu Liu	Joint Dynamic Models in Reliability and Survival Analysis for Recurrent Competing Risks, Longitudinal Markers, and Terminal Events
						Wen Young Tun, Young-Jin Han, and Won-Seok Jeon	Preventive Maintenance Intervals for a Multi-unit System
						Tomoki Akiba	Reliability of 3 Dimensional Consecutive-k System
4G1	I	23	I-23	OPTIMIZATION METHODS IN SYSTEMS RELIABILITY THEORY	Hisashi Yamamoto & Won Young Yun	Xiao Xiao	Reconsideration of Network Types - the cases of e_{n+1} , e_{n+2} and e_{n+3} -