

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 Bleniak Patryk Mielke Houda Ouerbach, Mitra Fouadrad, and Antoine Grall Chien-Yu Peng and Hsueh-Fang Ai Yili Hong and Jie Li Hiroyuki Okamura and Tadashi Dohi Yasuhiro Saito and Tadashi Dohi Xiao Xiao Yanqin Lu, Ningpeng Li, and Jing Lin Zhilang Liu	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 A Note on Variational Bayes Approach for Software Reliability Growth Model with Normal Distribution Nonparametric Maximum Likelihood Estimator with Software Fault Count Data Haw Weibull Regression Model for MHP-based Software Reliability Assessment Remaining Useful Life Prediction of Rolling Element Bearings Based on the Exponential Model Combination with Particle Filtering Application of Synchrosqueezing Transform to Planetary Gearbox Fault Diagnosis under Nonstationary Conditions Feature Ranking Based on Multi-Metric Fusion for Bearing Fault Diagnosis 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
1B1	I	16	1-16	Modeling and Analysis of Degradation Data	William Q. Meeker	William Q. Meeker	Yan-Hui Lin, Yan-Fu Li, and Enrico Zio 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 Bredich, Yisha Xiang, Tongdan Jin, and Edward Pohl Chao Fang 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 Nozer Singpurwalla Marco Scarsini, LUSS Guido Carli Alfred Müller	Reliability Analysis of Systems with Multiple Dependent Competing Degradation Processes 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 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 Mohe's "Excess Wealth": A Stepping Stone to Prosperity Mohe Shaked and Game Theory Between First and Second-order Stochastic Dominance
1C1	I	29	1-29	Software System Reliability I	Tadashi Dohi	Tadashi Dohi	Chen Nan, Zhiheng Ye, Yisha Xiang, and Linmiao Zhang Jan Bredich, Yisha Xiang, Tongdan Jin, and Edward Pohl Chao Fang 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 Nozer Singpurwalla Marco Scarsini, LUSS Guido Carli Alfred Müller	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 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 Mohe's "Excess Wealth": A Stepping Stone to Prosperity Mohe Shaked and Game Theory Between First and Second-order Stochastic Dominance
1D1	I	24	1-24	Prognostic and health management (PHM)	Ming-Jian Zuo & Zhilang Liu	Zhilang Liu	Laurent Doyen, Olivier Gaudoin, and Syamsundar Annamraju Bin Liu, Ruyei Hui, Yeh, and Way Kuo Mitra Fouadrad, Christian Paroissin, and Antoine Grall Yan-Hui Lin, Yan-Fu Li, and Enrico Zio 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 Bredich, Yisha Xiang, Tongdan Jin, and Edward Pohl Chao Fang 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 Nozer Singpurwalla Marco Scarsini, LUSS Guido Carli Alfred Müller	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 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 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 Mohe's "Excess Wealth": A Stepping Stone to Prosperity Mohe Shaked and Game Theory Between First and Second-order Stochastic Dominance
1E1	I	13	1-13	Maintenance Modeling I	Min XIE	Min XIE	Laurent Doyen, Olivier Gaudoin, and Syamsundar Annamraju Bin Liu, Ruyei Hui, Yeh, and Way Kuo Mitra Fouadrad, Christian Paroissin, and Antoine Grall Yan-Hui Lin, Yan-Fu Li, and Enrico Zio 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 Bredich, Yisha Xiang, Tongdan Jin, and Edward Pohl Chao Fang 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 Nozer Singpurwalla Marco Scarsini, LUSS Guido Carli Alfred Müller	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 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 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 Mohe's "Excess Wealth": A Stepping Stone to Prosperity Mohe Shaked and Game Theory Between First and Second-order Stochastic Dominance
1F1	I	17	1-17	Multi-state and Continuous-time System Reliability I	Anatoly Lisnianski and Gregory Levitin	Anatoly Lisnianski	Chen Nan, Zhiheng Ye, Yisha Xiang, and Linmiao Zhang Jan Bredich, Yisha Xiang, Tongdan Jin, and Edward Pohl Chao Fang 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 Nozer Singpurwalla Marco Scarsini, LUSS Guido Carli Alfred Müller	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 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 Mohe's "Excess Wealth": A Stepping Stone to Prosperity Mohe Shaked and Game Theory Between First and Second-order Stochastic Dominance
1G1	I	1	1-1	Advanced Maintenance Strategy	Yisha Xiang and Nan Chen	Yisha Xiang and Nan Chen	Chen Nan, Zhiheng Ye, Yisha Xiang, and Linmiao Zhang Jan Bredich, Yisha Xiang, Tongdan Jin, and Edward Pohl Chao Fang 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 Nozer Singpurwalla Marco Scarsini, LUSS Guido Carli Alfred Müller	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 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 Mohe's "Excess Wealth": A Stepping Stone to Prosperity Mohe Shaked and Game Theory Between First and Second-order Stochastic Dominance
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 Nozer Singpurwalla Marco Scarsini, LUSS Guido Carli Alfred Müller	Statistical Analysis of Geometric Distribution for Masked Data 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 Mohe's "Excess Wealth": A Stepping Stone to Prosperity Mohe Shaked and Game Theory Between First and Second-order Stochastic Dominance
2A2	C	I-11	C-I-11	Stochastic ageing			F. German Badia and Carmen Sanguesa Antonio Gómez-Ariza, Félix Belzunce, Julio Mulero and Alfonso Suárez-Llorens Hai Ha Pham and Sophie Mercier Nozer Singpurwalla Marco Scarsini, LUSS Guido Carli Alfred Müller	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 Mohe's "Excess Wealth": A Stepping Stone to Prosperity Mohe Shaked and Game Theory Between First and Second-order Stochastic Dominance
2A3	I	40	1-40	Memorial Session in Honor of Moshe Shaked	Hajun Li and Marco Scarsini	Hajun Li	Nozer Singpurwalla Marco Scarsini, LUSS Guido Carli Alfred Müller	Mohe's "Excess Wealth": A Stepping Stone to Prosperity Mohe Shaked and Game Theory Between First and Second-order Stochastic Dominance
2A4	I	34	1-34	Stochastic Dependence in Reliability	Maochao Xu	Maochao Xu	Maochao Xu Franco Pellerey Jorge Navarro Eric BOUTNER, Laurent Bordes and Laurent Doyen Ren Yan Jiang Carolina Martínez-Riquelme, Félix Belzunce, Franco Pellerey and Saeed Zalzalah Felix Belzunce, Carolina Martínez-Riquelme and Jose M. Ruiz Tomasz Rychlik and Pawel Kozyra Chien-Wei Wu, Shih-Wen Liu, Kuo-Hao Chang and Chao-Lung Yang 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 Yincai Tang and Pingping Wang Shun-Lin Jeng Sheng-Tsai Tseng and Nan-Jung Hsu Huan Yu and Jun Yang Changshu Ke Takahiro Nakamura, Tomoki Akiba, Xiao Xiao and Heishi Yamamoto Wenjun Gong and Yunxia Chen Ceki Franko and Famin Yalcin Ionescu Dorina Romina, Nicolae Brinzei and Jean-François Petit Francisco J. Samaniego and Jorge Navarro Jorge Navarro and Francisco J. Samaniego Jan Teije Kooloy, Bo H. Lindqvist and Stein Aaserud Paul Kvan and Jye-Chyi Lu Ananda Sen and Anupam Sombomsovatdee Vaclav Simacek and Bo H. Lindqvist Kevin Wilson and John Dugley Daqing 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 Cakravastya Richard Arnold, Stefanka Chukova and Yu Hayakawa Yves Langeron, Mitra Fouadrad and Antoine Grall Ding Huang, Huang and Yikui Lin Weichang, Teh, Yi-Tun 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 Zhiqun Cheng, Yanning Qiao and Bo Guo Hirosaki Shida, Hirofumi Ogasaki, Yoshinobu Higami, Hirohisa Aman and Hiroshi Takahashi Romain Lesobre, Keomany Bouvard, Christophe Berenger, Vincent Cocquempot and Anne Barros Boyan Dimitrov and Sahib Eas Vladimir Rykov and Victor Bokin Dmitry Efrosinin, János Sztrik, and Mais Fakhodov Mikhail Sukharev Dmitry Nazarov and Oleg Abramov Igor Qurevich and Mais Fakhodov Xiaoling Xu, Ronghua Wang and Beiqing Gu Yi-Chao Yin, Chenggang Huang, Yuan-Jian Yang, Yu Liu and Hong-Zhong Huang Gao-Zhong Fu, Hong-Zhong Huang, Yan-Feng Li, Yuan-Jian Yang and Yi-Chao Yin Nicolas Bouvard and Francis Corset Frank Corset and Yann Dipoix Ren Yan Jiang Gregory Levitin and Ludong Xing Ping-Chen Chang, Lance Fiordella, and Yi-Kuei Lin Furnio Oh Guoan Wang, Ludong Xing, and Rui Peng Mu-Xia Sun, Yan-Fu Li, Enrico Zio Tian Zhang, Rui Peng, Wenbin Wang, Qingqiang Zhai, and Yi Ding Lev Khvatskin, Ilya Frenkel and Anatoly Lisnianski Hadi Khorshidi, Indra Gunawan and M. Yousef Ibrahim Halong Jing, Yunxia Chen and Rui Kang A. Adam Ding, Jim-Jan Hoish, and Weijing Wang Hassane Chraïbi, Aurelie Legier, Hervé Barthomé and Caroline Néiss Gaspard Ping Jiang and Yunyan Xing Baptiste Gregorutti, Bertrand Michel and Philippe Saint-Pierre Sanjib Basu P. G. Senkanan Fátima Mirones, Narayanaswamy Balakrishnan, and Markos Koutras Ali Riza Söbüt and Serkan Evrimaz Shubin Si, Ning Wang, and Hongyan Dui Jiangbin Zhao, Zhaogang Cai, Honggang Li, and Shubin Si Peng Zhao Guofeng Du Weiyong Ding A. Adam Ding, Jim-Jan Hoish, and Weijing Wang Dang-Huang Su, Tsung-Chung Fu and Shu-Hui Chang (Tony) Jiansong Sun William Volterman Chih-Chun Tsai, Chien-Ta Lin and N. Balakrishnan Hideo Nagasaka and N. Balakrishnan Yandan Yang, Hon Keung Tony Ng and Narayanaswamy Balakrishnan Anna Dembinska Toshinari Kamakura Mitsuhiro Kimura, Naomichi Hata, and Takaji Fujiwara Shinji Inoue and Shigeru Yamada Qingshi Hu and Lugu Wang Yoshitobu Tamura and Shigeru Yamada Mamoru Obara and Satoshi Fukumoto Mitsutaka Kimura, Mitsuhiro Imazumi, and Toshio Nakagawa Man Lai Tang and Hon Keung Tony Ng Zhiheng Ye Jingxiu Zhao Peng Sheng Chan, Peng Zhao, and Hon Keung Tony Man-Ho Ling, Hon Yu So, and Narayanaswamy Balakrishnan Feng Su, Xiaojun Zhu, and N. Balakrishnan Tomohiro Kitagawa, Tetsushi Yuge, and Shigeru Yanagi Xufeng Zhao, Cunhua Qian, and Toshio Nakagawa Ferenc Szidarovszky, Harry Guo, Akio Matsumoto, Miklos Szidarovszky Koids To and Toshio Nakagawa Mingqih Chen, Cunhua Qian, Xufeng Zhao, and Toshio Nakagawa	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 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 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 Correlatively-connected Systems with Dual Constraints of m Consecutive Gaps and n Total Gaps A Note on Circular m-consecutive-r, l-out-of-m, F Systems A Study on Closed Formulas for Connected-(r, a)-out-of-(m, n), 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 Competing 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 Polities and in Reliability Distributions On Sensitivity of Reliability Systems Operating in Random Environment to Shape of Their Input Distributions Reliability and Sensitivity Analysis of an Aging Unit with a Hysteresis Policy for the Repair Facility Activation Reliability Indices Estimation of Pipeline Networks Application of Regions of Acceptability for Sensitivity Analysis Investigation Characteristics and Properties of Queueing networks to Provide Their Sustainability Statistical Analysis of Type-I Censored Masked Data for Series System Under Process-Stress Accelerated Life Test A Life Prediction Method for High-Speed Impellers via Accelerated Life Tests A Service Life Estimation Method for Offshore Electronic Control Module Based on Salt Spray Test Evaluating the Consistency of Maximum Likelihood Estimator of Imperfect Repair ARA-1 Models Computed from a Single Trajectory A Better-than-new Repair Model An Approximation to Mean Time to the Next Failure for Repairable Systems State-space Event Transition Method for Evaluating Mission Reliability, Time and Cost Confidence-based Reliability Modeling of a Stochastic-Flow Production System Stochastic Evaluation Methods of Multi-state Systems via Modular Decompositions - A Case of Partially Ordered States - Competing Failure Analysis for Reliability Systems with Global and Selective Propagation Effects A Dynamic Programming Approach for the Efficient Reliability Evaluation of Multi-State Series-Parallel System Optimal Inspection and Replacement Strategy for Systems Subject to Two Types of Failures Importance Assessment of Aging Multi-state Water Cooling System by L2-transform Method An Investigation on Imperialist Competitive Algorithm for Solving Reliability-Redundancy Allocation Problem Optimization method for Acceleration Factor Under Multiple Stresses and Failure Mechanisms A Study of Replacement Policy of Second-hand Products Under a Finite Planning Horizon A New Method and Tool for Reliability Assessments of Gated Sallway Systems Multivariate Degradation Prediction Based on Mahalanobis Distance and Relevance Vector Machines Random Forest Permutation Importance and Multivariate Functional Regression Competing Risks Limited Failure Models: identifiability Issues and Model Fitting Modeling and Analysis of Lifetime Data Using Quantile Function Semi-parametric Inference for Cure Rate Models Reliability Importance in Systems with Weighted Components Protection for the Effects of the External Factors on System Reliability Reliability Optimization of Or-Con/k/n System Redundancy Allocation at Component Level Versus System Level Component Level Versus System Level k-out-of-n Assembly Systems On the Sharpness of Extreme Order Statistics from Heterogeneous Samples Local Linear Estimation of Concordance Probability with Application to Covariate Effects Models on Association for Bivariate Failure-time Data Nonparametric Association Analysis of Recurrent Gap Time Data with a Terminal Event Regression Analysis of Dependent Current Status Data under the Proportional Hazards Model Pooling Censored Samples: an Overview Optimal Design for Accelerated-Stress Acceptance Test Based on Wiener Process On Parameter Estimation for the Generalized Pareto Distribution A Stochastic Expectation-Maximization Algorithms for the Analysis of System Lifetime Data with Known Signature Discrete Order Statistics for Non-Identically Distributed Variables with Applications to Reliability Likelihood-based Inference on Weibull Distribution Hidden Markov Analysis for Software Testing Performance Evaluation Based on Two-stage Testing by Two Teams On Multiple Changes of Testing-environment in Software Reliability Assessment Statistical Analysis of Software Reliability Growth Considering Detection and Correction Three Dimensional Wiener Processes Model and Optimal Software Maintenance Planning A Note on Rejuvenation in Time Warp-Based Distributed Systems Reliability Modelling of Distributed Communication Processing for a Cloud System with Data Updates Sequential Nonparametric Procedures for Testing the Equality of Two Lifetime Distributions New Estimating Equations for the Gamma Distribution Sieve Maximum Likelihood Estimation for a General Class of Accelerated Hazards Models with Bundled Parameters Optimal Allocation of Redundancies in Series Systems Analysis for One-shot Device Testing Data with Competing Risks Exact Likelihood Inference for Two Exponential Populations Based on Joint Generalized Type-II Hybrid Censoring Non-Periodic Inspection and Replacement Policy for a Multi-unit One-shot System with Minimal Repair Optimal Under-time Replacement Policies with Random Working Cycles Age Replacement with Competing Failure Modes Stochastic Model of Commercial Airframe Maintenance Discrete Replacement Models with Works and Failures
2B1	C	II-2	C-II-2	Lifetime data analysis			Eric BOUTNER, Laurent Bordes and Laurent Doyen Ren Yan Jiang Carolina Martínez-Riquelme, Félix Belzunce, Franco Pellerey and Saeed Zalzalah Felix Belzunce, Carolina Martínez-Riquelme and Jose M. Ruiz Tomasz Rychlik and Pawel Kozyra Chien-Wei Wu, Shih-Wen Liu, Kuo-Hao Chang and Chao-Lung Yang 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 Yincai Tang and Pingping Wang Shun-Lin Jeng Sheng-Tsai Tseng and Nan-Jung Hsu Huan Yu and Jun Yang Changshu Ke Takahiro Nakamura, Tomoki Akiba, Xiao Xiao and Heishi Yamamoto Wenjun Gong and Yunxia Chen Ceki Franko and Famin Yalcin Ionescu Dorina Romina, Nicolae Brinzei and Jean-François Petit Francisco J. Samaniego and Jorge Navarro Jorge Navarro and Francisco J. Samaniego Jan Teije Kooloy, Bo H. 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Rajapaksha Zeina Al Masry, Sophie Mercier and Ghislain Verdier Mario Hellmich Fan Sun, Tongdan Jin and Yi Ding Zhiqun Cheng, Yanning Qiao and Bo Guo Hirosaki Shida, Hirofumi Ogasaki, Yoshinobu Higami, Hirohisa Aman and Hiroshi Takahashi Romain Lesobre, Keomany Bouvard, Christophe Berenger, Vincent Cocquempot and Anne Barros Boyan Dimitrov and Sahib Eas Vladimir Rykov and Victor Bokin Dmitry Efrosinin, János Sztrik, and Mais Fakhodov Mikhail Sukharev Dmitry Nazarov and Oleg Abramov Igor Qurevich and Mais Fakhodov Xiaoling Xu, Ronghua Wang and Beiqing Gu Yi-Chao Yin, Chenggang Huang, Yuan-Jian Yang, Yu Liu and Hong-Zhong Huang Gao-Zhong Fu, Hong-Zhong Huang, Yan-Feng Li, Yuan-Jian Yang and Yi-Chao Yin Nicolas Bouvard and Francis Corset Frank Corset and Yann Dipoix Ren Yan Jiang Gregory Levitin and Ludong Xing Ping-Chen Chang, Lance Fiordella, and Yi-Kuei Lin Furnio Oh Guoan Wang, Ludong Xing, and Rui Peng Mu-Xia Sun, Yan-Fu Li, Enrico Zio Tian Zhang, Rui Peng, Wenbin Wang, Qingqiang Zhai, and Yi Ding Lev Khvatskin, Ilya Frenkel and Anatoly Lisnianski Hadi Khorshidi, Indra Gunawan and M. Yousef Ibrahim Halong Jing, Yunxia Chen and Rui Kang A. Adam Ding, Jim-Jan Hoish, and Weijing Wang Hassane Chraïbi, Aurelie Legier, Hervé Barthomé and Caroline Néiss Gaspard Ping Jiang and Yunyan Xing Baptiste Gregorutti, Bertrand Michel and Philippe Saint-Pierre Sanjib Basu P. G. Senkanan Fátima Mirones, Narayanaswamy Balakrishnan, and Markos Koutras Ali Riza Söbüt and Serkan Evrimaz Shubin Si, Ning Wang, and Hongyan Dui Jiangbin Zhao, Zhaogang Cai, Honggang Li, and Shubin Si Peng Zhao Guofeng Du Weiyong Ding A. Adam Ding, Jim-Jan Hoish, and Weijing Wang Dang-Huang Su, Tsung-Chung Fu and Shu-Hui Chang (Tony) Jiansong Sun William Volterman Chih-Chun Tsai, Chien-Ta Lin and N. Balakrishnan Hideo Nagasaka and N. Balakrishnan Yandan Yang, Hon Keung Tony Ng and Narayanaswamy Balakrishnan Anna Dembinska Toshinari Kamakura Mitsuhiro Kimura, Naomichi Hata, and Takaji Fujiwara Shinji Inoue and Shigeru Yamada Qingshi Hu and Lugu Wang Yoshitobu Tamura and Shigeru Yamada Mamoru Obara and Satoshi Fukumoto Mitsutaka Kimura, Mitsuhiro Imazumi, and Toshio Nakagawa Man Lai Tang and Hon Keung Tony Ng Zhiheng Ye Jingxiu Zhao Peng Sheng Chan, Peng Zhao, and Hon Keung Tony Man-Ho Ling, Hon Yu So, and Narayanaswamy Balakrishnan Feng Su, Xiaojun Zhu, and N. Balakrishnan Tomohiro Kitagawa, Tetsushi Yuge, and Shigeru Yanagi Xufeng Zhao, Cunhua Qian, and Toshio Nakagawa Ferenc Szidarovszky, Harry Guo, Akio Matsumoto, Miklos Szidarovszky Koids To and Toshio Nakagawa Mingqih Chen, Cunhua Qian, Xufeng Zhao, and Toshio Nakagawa	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 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 Correlatively-connected Systems with Dual Constraints of m Consecutive Gaps and n Total Gaps A Note on Circular m-consecutive-r, l-out-of-m, F Systems A Study on Closed Formulas for Connected-(r, a)-out-of-(m, n), 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 Competing 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 Polities and in Reliability Distributions On Sensitivity of Reliability Systems Operating in Random Environment to Shape of Their Input Distributions Reliability and Sensitivity Analysis of an Aging Unit with a Hysteresis Policy for the Repair Facility Activation Reliability Indices Estimation of Pipeline Networks Application of Regions of Acceptability for Sensitivity Analysis Investigation Characteristics and Properties of Queueing networks to Provide Their Sustainability Statistical Analysis of Type-I Censored Masked Data for Series System Under Process-Stress Accelerated Life Test A Life Prediction Method for High-Speed Impellers via Accelerated Life Tests A Service Life Estimation Method for Offshore Electronic Control Module Based on Salt Spray Test Evaluating the Consistency of Maximum Likelihood Estimator of Imperfect Repair ARA-1 Models Computed from a Single Trajectory A Better-than-new Repair Model An Approximation to Mean Time to the Next Failure for Repairable Systems State-space Event Transition Method for Evaluating Mission Reliability, Time and Cost Confidence-based Reliability Modeling of a Stochastic-Flow Production System Stochastic Evaluation Methods of Multi-state Systems via Modular Decompositions - A Case of Partially Ordered States - Competing Failure Analysis for Reliability Systems with Global and Selective Propagation Effects A Dynamic Programming Approach for the Efficient Reliability Evaluation of Multi-State Series-Parallel System Optimal Inspection and Replacement Strategy for Systems Subject to Two Types of Failures Importance Assessment of Aging Multi-state Water Cooling System by L2-transform Method An Investigation on Imperialist Competitive Algorithm for Solving Reliability-Redundancy Allocation Problem Optimization method for Acceleration Factor Under Multiple Stresses and Failure Mechanisms A Study of Replacement Policy of Second-hand Products Under a Finite Planning Horizon A New Method and Tool for Reliability Assessments of Gated Sallway Systems Multivariate Degradation Prediction Based on Mahalanobis Distance and Relevance Vector Machines Random Forest Permutation Importance and Multivariate Functional Regression Competing Risks Limited Failure Models: identifiability Issues and Model Fitting Modeling and Analysis of Lifetime Data Using Quantile Function Semi-parametric Inference for Cure Rate Models Reliability Importance in Systems with Weighted Components Protection for the Effects of the External Factors on System Reliability Reliability Optimization of Or-Con/k/n System Redundancy Allocation at Component Level Versus System Level Component Level Versus System Level k-out-of-n Assembly Systems On the Sharpness of Extreme Order Statistics from Heterogeneous Samples Local Linear Estimation of Concordance Probability with Application to Covariate Effects Models on Association for Bivariate Failure-time Data Nonparametric Association Analysis of Recurrent Gap Time Data with a Terminal Event Regression Analysis of Dependent Current Status Data under the Proportional Hazards Model Pooling Censored Samples: an Overview Optimal Design for Accelerated-Stress Acceptance Test Based on Wiener Process On Parameter Estimation for the Generalized Pareto Distribution A Stochastic Expectation-Maximization Algorithms for the Analysis of System Lifetime Data with Known Signature Discrete Order Statistics for Non-Identically Distributed Variables with Applications to Reliability Likelihood-based Inference on Weibull Distribution Hidden Markov Analysis for Software Testing Performance Evaluation Based on Two-stage Testing by Two Teams On Multiple Changes of Testing-environment in Software Reliability Assessment Statistical Analysis of Software Reliability Growth Considering Detection and Correction Three Dimensional Wiener Processes Model and Optimal Software Maintenance Planning A Note on Rejuvenation in Time Warp-Based Distributed Systems Reliability Modelling of Distributed Communication Processing for a Cloud System with Data Updates Sequential Nonparametric Procedures for Testing the Equality of Two Lifetime Distributions New Estimating Equations for the Gamma Distribution Sieve Maximum Likelihood Estimation for a General Class of Accelerated Hazards Models with Bundled Parameters Optimal Allocation of Redundancies in Series Systems Analysis for One-shot Device Testing Data with Competing Risks Exact Likelihood Inference for Two Exponential Populations Based on Joint Generalized Type-II Hybrid Censoring Non-Periodic Inspection and Replacement Policy for a Multi-unit One-shot System with Minimal Repair Optimal Under-time Replacement Policies with Random Working Cycles Age Replacement with Competing Failure Modes Stochastic Model of Commercial Airframe Maintenance Discrete Replacement Models with Works and Failures
2B2	C	II-4	C-II-4	Order statistics/Statistical quality control			Chien-Wei Wu, Shih-Wen Liu, Kuo-Hao Chang and Chao-Lung Yang 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 Yincai Tang and Pingping Wang Shun-Lin Jeng Sheng-Tsai Tseng and Nan-Jung Hsu Huan Yu and Jun Yang Changshu Ke Takahiro Nakamura, Tomoki Akiba, Xiao Xiao and Heishi Yamamoto Wenjun Gong and Yunxia Chen Ceki Franko and Famin Yalcin Ionescu Dorina Romina, Nicolae Brinzei and Jean-François Petit Francisco J. Samaniego and Jorge Navarro Jorge Navarro and Francisco J. Samaniego Jan Teije Kooloy, Bo H. Lindqvist and Stein Aaserud Paul Kvan and Jye-Chyi Lu Ananda Sen and Anupam Sombomsovatdee Vaclav Simacek and Bo H. Lindqvist Kevin Wilson and John Dugley Daqing 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 Cakravastya Richard Arnold, Stefanka Chukova and Yu Hayakawa Yves Langeron, Mitra Fouadrad and Antoine Grall Ding Huang, Huang and Yikui Lin Weichang, Teh, Yi-Tun 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 Zhiqun Cheng, Yanning Qiao and Bo Guo Hirosaki Shida, Hirofumi Ogasaki, Yoshinobu Higami, Hirohisa Aman and Hiroshi Takahashi Romain Lesobre, Keomany Bouvard, Christophe Berenger, Vincent Cocquempot and Anne Barros Boyan Dimitrov and Sahib Eas Vladimir Rykov and Victor Bokin Dmitry Efrosinin, János Sztrik, and Mais Fakhodov Mikhail Sukharev Dmitry Nazarov and Oleg Abramov Igor Qurevich and Mais Fakhodov Xiaoling Xu, Ronghua Wang and Beiqing Gu Yi-Chao Yin, Chenggang Huang, Yuan-Jian Yang, Yu Liu and Hong-Zhong Huang Gao-Zhong Fu, Hong-Zhong Huang, Yan-Feng Li, Yuan-Jian Yang and Yi-Chao Yin Nicolas Bouvard and Francis Corset Frank Corset and Yann Dipoix Ren Yan Jiang Gregory Levitin and Ludong Xing Ping-Chen Chang, Lance Fiordella, and Yi-Kuei Lin Furnio Oh Guoan Wang, Ludong Xing, and Rui Peng Mu-Xia Sun, Yan-Fu Li, Enrico Zio Tian Zhang, Rui Peng, Wenbin Wang, Qingqiang Zhai, and Yi Ding Lev Khvatskin, Ilya Frenkel and Anatoly Lisnianski Hadi Khorshidi, Indra Gunawan and M. Yousef Ibrahim Halong Jing, Yunxia Chen and Rui Kang A. Adam Ding, Jim-Jan Hoish, and Weijing Wang Hassane Chraïbi, Aurelie Legier, Hervé Barthomé and Caroline Néiss Gaspard Ping Jiang and Yunyan Xing Baptiste Gregorutti, Bertrand Michel and Philippe Saint-Pierre Sanjib Basu P. G. Senkanan Fátima Mirones, Narayanaswamy Balakrishnan, and Markos Koutras Ali Riza Söbüt and Serkan Evrimaz Shubin Si, Ning Wang, and Hongyan Dui Jiangbin Zhao, Zhaogang Cai, Honggang Li, and Shubin Si Peng Zhao Guofeng Du Weiyong Ding A. Adam Ding, Jim-Jan Hoish, and Weijing Wang Dang-Huang Su, Tsung-Chung Fu and Shu-Hui Chang (Tony) Jiansong Sun William Volterman Chih-Chun Tsai, Chien-Ta Lin and N. Balakrishnan Hideo Nagasaka and N. Balakrishnan Yandan Yang, Hon Keung Tony Ng and Narayanaswamy Balakrishnan Anna Dembinska Toshinari Kamakura Mitsuhiro Kimura, Naomichi Hata, and Takaji Fujiwara Shinji Inoue and Shigeru Yamada Qingshi Hu and Lugu Wang Yoshitobu Tamura and Shigeru Yamada Mamoru Obara and Satoshi Fukumoto Mitsutaka Kimura, Mitsuhiro Imazumi, and Toshio Nakagawa Man Lai Tang and Hon Keung Tony Ng Zhiheng Ye Jingxiu Zhao Peng Sheng Chan, Peng Zhao, and Hon Keung Tony Man-Ho Ling, Hon Yu So, and Narayanaswamy Balakrishnan Feng Su, Xiaojun Zhu, and N. Balakrishnan Tomohiro Kitagawa, Tetsushi Yuge, and Shigeru Yanagi Xufeng Zhao, Cunhua Qian, and Toshio Nakagawa Ferenc Szidarovszky, Harry Guo, Akio Matsumoto, Miklos Szidarovszky Koids To and Toshio Nakagawa Mingqih Chen, Cunhua Qian, Xufeng Zhao, and Toshio Nakagawa	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

						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
3G1	I	38	I-38	Theory and Methods for System Reliability	LiRong Cui		On Some Problems for Aggregated Stochastic Processes in Reliability
						Luqiong Cui, Yan Li, and Jingyuan Shen	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 Sorel Prediction for Failures Influenced by Seasonality
4A1	I	39	I-39	Warranty Data Analysis	Stefanka Chukova and Yu Hayakawa	Yu Hayakawa	Warranty Data Analysis Concerning Customer's Reporting Behaviour
						Xin Wang and Zhisheng Ye	Auto Warranty Data: Estimation of the Mean Cumulative Function
						Stefanka Chukova and Yu Hayakawa	Some Results on Aging Properties and Stochastic Orders of Multi-state Systems
						Serkan Eryilmaz	On the Start-up Demonstration Test Theory
4B1	I	37	I-37	Structural Reliability and Aging Properties of Reliability Systems	Markos V. Koutras	Markos V. Koutras	Mixed Start-up Demonstration Tests
						Fotios Milienos, Narayanaswamy Balakrishnan and Markos Koutras	Optimal Management Policy for a Control System Considering Security
						Markos Koutras, Narayanaswamy Balakrishnan, and Fotios Milienos	Optimal Sever Number of re-out-of-n System with n Servers for m Jobs
						Mitsuhiko Imamura and Mitsutaka Kimura	Interval Estimation of Optimal Software Rejuvenation Policy
4C1	I	32	I-32	Software System Reliability IV	Tadashi Dohi	Xiao Xiao	Assessment of a Condition-based Maintenance Strategy for a System Subject to Degradation Failures and Catastrophic Failures Sharing an Initial Common Sour
						Syoud Nakamura, Xufeng Zhao, and Toshio Nakagawa	Inference for the Wiener Process with Random Inflation Time
						Shunsuke Takamoto and Tadashi Dohi	A Multivariate Degradation Model with Dependence Due to Shocks
						Inmaculada T. Castro, Ji Hwan Cha and Carmen Sangüesa	Managing Systemic Reliability Challenges for Offshore Windfarms
4D1	I	10	I-10	Deterioration models	Sophie Mercier		An Exact Method for Solving Loop Structured System in Reliability Analysis
						Christian Paroissin	
						Sophie Mercier, Anne Barros and Antoine Grall	
4E1	I	25	I-25	Determining reliability in complex engineered systems	Tim Bedford	Tim Bedford	
						Tim Bedford	
						Takeshi Matsuoka	
						Nikolaos Limnios	
4F1	I	26	I-26	Repairable Systems	Paul Kvam and Vasily Krivtsov	Paul Kvam	Recurrent Repair Analysis of Sibling Components
						Vasily Krivtsov, Michael Frankstein, and Alex Yevkin	Extending Minimal Repair Models for Repairable Systems: A Comparison of Dynamic and Heterogeneous Extensions of a Nonhomogeneous Poisson Process
						Bu Henry Lindqvist and Zeytu Gashaw Asfaw	Joint Dynamic Models in Reliability and Survival Analysis for Recurrent Competing Risks, Longitudinal Markers, and Terminal Events
						Edsel A. Pena and Piaomu Liu	Preventive Maintenance Intervals for a Multi-unit System
4G1	I	23	I-23	OPTIMIZATION METHODS IN SYSTEMS RELIABILITY THEORY	Hisashi Yamamoto & Won Young Yun		Reliability of 3 Dimensional Consecutive-k System
						Won Young Yun, Young-Jin Han, and Won-Seok Jeon	Reconsideration of Network Types - the cases of e_{n+1} , e_{n+2} and e_{n+3} -
						Tomoki Akiba	
						Xiao Xiao	