

S-ID	I/C	S-No	No.	Session title	Session organizer	Chair	paper No.	Authors	Paper title
1A1	I	11	I-11	Inequalities for order statistics and system lifetimes	Tomasz Rychlik	Tomasz Rychlik	32	Agnieszka Goroncy	Bounds on the Expected Differences of Consecutive Order Statistics Based on the Increasing Failure Rate Samples
							34	Mariusz Bieniek	Optimal Bounds on Total Time on Test for Distributions with Decreasing Density or Failure Rate
							33	Patryk Mziufa	Moment Comparison of Ordered Mixtures, with Applications in Reliability Theory
1B1	I	16	I-16	Modeling and Analysis of Degradation Data	William Q. Meeker	William Q. Meeker	47	Houda Ghamlouch, Mitra Fouladirad, and Antoine Grall	Residual Lifetime Estimation and Stochastic Volatility: A Case Study
							48	Chien-Yu Peng and Hsueh-Fang Ai	A Study of Degradation Data with Measurement Errors
							49	Yili Hong and Jie Li	Spatio-temporal Modeling of Degradation Data Collected Over a Spatial Region
1C1	I	29	I-29	Software System Reliability I	Tadashi Dohi	Tadashi Dohi	87	Hiroaki Okamura and Tadashi Dohi	A Note on Variational Bayes Approach for Software Reliability Growth Model with Normal Distribution
							88	Yasuhiro Saito and Tadashi Dohi	Nonparametric Maximum Likelihood Estimator with Software Fault Count Data
							89	Xiao Xiao	Haar Wavelet Regression Model for NHPP-based Software Reliability Assessment
1D1	I	24	I-24	Prognostic and health management (PHM)	Ming-Jian Zuo & Zhiliang Liu	Zhiliang Liu	72	Yaguo Lei, Naipeng Li, and Jing Lin	Remaining Useful Life Prediction of Rolling Element Bearings Based on the Exponential Model Combination with Particle Filtering
							73	Zhipeng Feng	Application of Synchrosqueezing Transform to Planetary Gearbox Fault Diagnosis under Nonstationary Conditions
							74	Zhiliang Liu	Feature Ranking Based on Multi-Metric Fusion for Bearing Fault Diagnosis
1E1	I	13	I-13	Maintenance Modeling I	Min XIE	Min XIE	38	Laurent Doyen, Olivier Gaudoin, and Syamsundar Annamraju	On Geometric Reduction of Age or Intensity Models for Imperfect Maintenance
							39	Bin Liu, Ruey Hwei Yeh, and Way Kuo	Inspection Scheduling for Multi-component Systems with Hidden Failures
							40	Mitra Fouladirad, Christian Paroissin, and Antoine Grall	Sensitivity Analysis for the Block Replacement Policy
1F1	I	17	I-17	Multi-state and Continuous-state System Reliability	Anatoly Lisnianski and Gregory Levitin	Anatoly Lisnianski	50	Yan-Hui Lin, Yan-Fu Li, and Enrico Zio	Reliability Analysis of Systems with Multiple Dependent Competing Degradation Processes
							51	Shey-Huei Sheu, Chin-Chih Chang, and Zhe George Zhang	Optimal Imperfect Preventive Maintenance Policy for a Multi-state System with Minimal Repair and Effective Age
							52	Anatoly Lisnianski and Ilija Frenkel	On Sensitivity Analysis for Multi-state System by Using LZ-transform
							53	Gregory Levitin and Liudong Xing	State-space Event Transition Method for Evaluating Mission Reliability, Time and Cost
							54	PING-CHEN CHANG & LANCE FIONDELLA	Confidence-based Reliability Modeling of a Stochastic-Flow Production system
						L. Khvatskin	55	Fumio Ohi	Stochastic Evaluation Methods of Multi-state Systems via Modular Decompositions - A Case of Partially Ordered States -
							56	Chaonan Wang, Liudong Xing, and Rui Peng	Competing Failure Analysis in Phased-mission Systems with Global and Selective Propagation Effects
							57	Mu-Xia Sun, Yan-Fu Li, Enrico Zio	A Dynamic Programming Approach for the Efficient Reliability Evaluation of Multi-State Series-Parallel System
							58	Tian Zhang, Rui Peng, Wenbin Wang, Qingqing Zhai, and Yi Ding	Optimal Inspection and Replacement Strategy for Systems Subject to Two Types of Failures
							59	Lev Khvatskin, Ilija Frenkel and Anatoly Lisnianski	Importance Assessment of Aging Multi-state Water Cooling System by LZ-Transform Method
1G1	I	1	I-1	Advanced Maintenance Strategy	Yisha Xiang and Nan Chen		1	Chen Nan, Zhisheng Ye, Yisha Xiang, and Linniao Zhang	Condition-based Maintenance Using the Inverse Gaussian Degradation Model
							2	Jan Bredlich, Yisha Xiang, Tongdan Jin, and Edward Pohl	Joint Planning for Preventive Maintenance and Multi-echelon Stocking
							3	Chao Fang	Risk Clustering and Importance Ranking in Engineering Projects
2A1	C	II-1	C-II-1	Statistical inference			8	Beiqing Gu, Xiaoling Xu and Ronghua Wang	Statistical Analysis of Geometric Distribution for Masked Data
							9	Maurizio Guida, Fabio Postiglione and Gianpaolo Pulcini	A Bayesian Estimation Procedure for the Non-homogeneous Gamma Process
							89	Uwe Jensen	Reliability Prediction Using Regression Models
2A2	C	I-11	C-I-11	Stochastic ageing			24	F. German Badia and Carmen Sanguesa	Negative Ageing Properties for Counting Processes Arising in Virtual Age Models
							63	Antonio Gómez-Arriaza, Félix Belzunce, Julio Mulero and Alfonso Suárez-Llorens	On a New Definition of the Multivariate IFR Notion based on the Standard Construction
							82	Hai Ha Pham and Sophie Mercier	A Bivariate Failure Time Model, with Dependence due to Shocks and Mixed Effect
2A3	I	40	I-40	Memorial Session in Honor of Moshe Shaked	Hajjun Li and Marco Scarsini	Hajjun Li	121	Nozer Singpurwalla	Moshe's "Excess Wealth": A Stepping Stone to Prosperity
							122	Marco Scarsini, LUSS Guido Carli	Moshe Shaked and Game Theory
							123	Alfred Muller	Between First and Second-order Stochastic Dominance
2A4	I	34	I-34	Stochastic Dependence in Reliability	Maochao Xu	Maochao Xu	102	Maochao Xu	Cyber Epidemic Models with Dependence
							103	Franco Pellerey	Standard Stochastic Orders and Joint Stochastic Orders: Conditions on Survival Copulas for Mutual Relationships
							104	Jorge Navarro	Comparisons of Residual Lifetimes of Used Systems
2B1	C	II-2	C-II-2	Lifetime data analysis			19	Eric Beutner, Laurent Bordes and Laurent Doyen	Failure of the Profile Likelihood Method for Semi-parametric Virtual Age Models
							44	Ren Yan Jiang	A Two-fold Mixed Power-law Model with a Time-varying Mixture Proportion for Modeling Failure Intensity
							76	Carolina Martínez-Riquelme, Felix Belzunce, Franco Pellerey and Saeed Zalazadeh	Comparison of Residual Lives for Dependent Random Variables
2B2	C	II-4	C-II-4	Order statistics/Statistical quality control			28	Felix Belzunce, Carolina Martínez-Riquelme and Jose M. Ruiz	Stochastic Comparisons of Relative Spacings with Applications in Reliability
							55	Tomasz Rychlik and Pawel Kozyra	Optimal Evaluations of Expected L-statistics Gauged in the Gini Mean Difference Units
							101	Chien-Wei Wu, Shih-Wen Liu, Kuo-Hao Chang and Chao-Lung Yang	Designing a New Two-plan Sampling System by Variables with Switching Rules
2B3	I	6	I-6	Bayesian Methods for Complex System Reliability	Alyson G. Wilson	Alyson G. Wilson	16	Shane Reese	A Hierarchical Model for the Reliability of Complex Multi-component Systems
							18	Kassandra Fronczyk, Rebecca Dickinson, Alyson Wilson, Caleb Browning, and Laura Freeman	Bayesian Hierarchical Models for Common Components across Multiple System Configurations
							17	Caleb Browning, Laura Freeman, Alyson Wilson, Rebecca Dickinson, and Kassandra Fronczyk	Estimating System Reliability from Heterogeneous Data
2B4	I	7	I-7	Bayesian Reliability inference and Warranty Predictions	Sheng-Tsaing Tseng	Sheng-Tsaing Tseng	19	Tsai-Hung Fan and Cian-Hui Chen	A Bayesian Reliability Analysis under Gamma Step-stress ADT
							20	Yincai Tang and Pingping Wang	Bayesian Inference for Degradation Data with one Change Point
							21	Shun-Lin Jeng	Failure Predictions for the Warranty Analysis Utilizing the Historical Data of Similar Products
2C1	C	I-2	C-I-2	k-out-of-n systems			22	Sheng-Tsaing Tseng and Nan-Jung Hsu	Combined Inference of Laboratory and Field Data with Application to Warranty Prediction for Highly-Reliable Products
							16	Huan Yu and Jun Yang	Circular Multi-state Consecutively-connected Systems with Dual Constraints of m Consecutive Gaps and n Total Gaps
							66	Changir Kan	A Note on Circular m-consecutive-k, l-out-of-n: F Systems
2C2	C	II-3	C-II-3	Accelerate life testing			73	Taishin Nakamura, Tomoaki Akiba, Xiao Xiao and Hisashi Yamamoto	A Study on Closed Formulae for Connected-(r, s)-out-of-(m, n): F Lattice System
							10	Xiaoling Xu, Ronghua Wang and Beiqing Gu	Statistical Analysis of Type-I Censored Masked Data for Series System under Process-Stress Accelerated Life Test
							107	Yi-Chao Yin, Chenggeng Huang, Yuan-Jian Yang, Yu Liu and Hong-Zhong Huang	A Life Prediction Method for High-Speed Impellers via Accelerated Life Tests
2C3	I	36	I-36	System reliability and life testing	Bo Henry Lindqvist	Bo Henry Lindqvist	112	Guo-Zhong Fu, Hong-Zhong Huang, Yan-Feng Li, Yuan-Jian Yang and Yi-Chao Yin	A Service Life Estimation Method for Offshore Electronic Control Module Based on Salt Spray Test
							109	Francisco J. Samaniego and Jorge Navarro	On Compartment Systems with Heterogeneous Components via Survival Signatures
							108	Jorge Navarro and Francisco J. Samaniego	Comparing Systems by Distortion Functions
2C4	I	21	I-21	New Approaches in Reliability Estimation and Diagnostic Testing	Bo Henry Lindqvist	Bo Henry Lindqvist	110	Jan Terje Kvaloy, Bo H. Lindqvist and Stein Aaserud	Residuals and Functional Form in Accelerated Life Regression Models
							63	Paul Kvam and Jye-Chyi Lu	An Extended Skill Test for Disease Diagnosis Based on the Receiver Operator Characteristic
							64	Ananda Sen and Anupap Somboonsavatdee	Recurrent Events Under Dependent Competing Risks and Missing Cause of Failure
2D1	C	I-6	C-I-6	Decision making in reliability			65	Vaclav Slimacek and Bo H. Lindqvist	Non-homogeneous Poisson Process with Nonparametric Frailty and Covariates
							14	Kevin Wilson and John Quigley	Sequencing Reliability Growth Tasks using Multiattribute Utility Functions
							33	Qingqing Zhai, Jun Yang, Rui Peng and Yu Zhao	Reliability Evaluation of Warm Standby Systems Based on Multivalued Decision Diagram - An Automatic Approach
2D2	C	I-10	C-I-10	Maintenance/Repair models			34	Dong Wang, Ping Jiang and Bo Guo	Involvement of Dependency Uncertainties in Fault Tree Analysis Using Hybrid Approach
							94	Bermawi P. Iskandar, Hennie Husniah, Udianna S. Pasaribu and Andi Cakravastia	Maintenance Contract with Dynamic Operating Condition
							99	Richard Arnold, Stefanka Chukova and Yu Hayakawa	Warranty Cost Analysis: Increasing Warranty Repair Times
2D3	I	20	I-20	Network Reliability Analysis	Ming-Jian Zuo	Ming Zuo	106	Yves Langeron, Mitra Fouladirad and Antoine Grall	Controlled Systems, Failure Prediction and Maintenance
							60	Ding Hsiang Huang and Yikuei Lin	System Reliability of a Hybrid Flow-shop with a Due Day
							61	Weichang Yeh, Yi-Yun Chang, and Chyh-Ming Lai	A Simple Path-based Algorithm for Evaluating the Reliability of a Deteriorated Multi-State Flow Network
2D4	I	22	I-22	Online Monitoring	Kazuyuki Suzuki	Kazuyuki Suzuki	62	Guanghan Bai, Zhigang Tian, and Ming J Zuo	An Improved Algorithm for Searching for Minimal Paths in Two-terminal Networks
							66	Yili Hong	Using Degradation Data with Dynamic Covariates to do Online Monitoring
							67	Watalu Yamamoto	Time Scales for Online Monitoring Data
2E1	C	I-1	C-I-1	Stochastic processes in reliability			68	Jin Lu and R.P.D.J. Rajapaksha	Optimal Decision Policy for Deteriorating Systems with On-line Monitoring in a Varying Environment Under Selectable Operations
							18	Zeina Al Masry, Sophie Mercier and Ghislain Verdier	Simulation Techniques and Approximated Distribution of an Extended Gamma Process
							20	Mario Hellmich	Generalized Markov Processes for Systems with Periodic Surveillance Testing and Monte Carlo Simulation
2E2	C	I-8	C-I-8	Maintenance models			31	Fei Sun, Tongdan Jin and Yi Ding	Modeling Aggregate Fleet Renewals with Uncertain System Installation Times
							39	Zhijun Cheng, Yaning Qiao and Bo Guo	Imperfect Maintenance Model of Pavement Based on Markov Decision Process
							51	Hiroshi Shida, Hirofumi Oogushi, Yoshinobu Higami, Hirohisa Aman and Hiroshi Takahashi	A Proposal of Maintenance Cost Model of Track Circuits
2E3	I	27	I-27	Sensitivity analysis of reliability systems I	Vladimir Rykov	Vladimir Rykov	81	Romain Lesobre, Keomany Bouvard, Christophe Berenguer, Vincent Cocquemot and Anne Barros	A Design Approach for MFOP-based Maintenance Policy of Multi-component Systems
							82	Boyan Dimitrov and Sahib Esa	On the Local Dependence Structure in Politics and in Reliability Distributions
							83	Vladimir Rykov and Victor Itkin	On Sensitivity of Reliability Systems Operating in Random Environment to Shape of Their Input Distributions
2E4	I	28	I-28	Sensitivity analysis of reliability systems II	Vladimir Rykov	Dmitry Efrosin	86	Dmitry Efrosin, Janos Sztrik, and Mais Faehadov	Reliability and Sensitivity Analysis of an Aging Unit with a Hysteresis Policy for the Repair Facility Activation
							85	Mikhail Sukharev	Reliability Indices Estimation of Pipeline Networks
							84	Dmitry Nazarov and Oleg Abramov	Application of Regions of Acceptability for Sensitivity Analysis
2F1	C	II-3	C-II-3	Accelerate life testing			10	Xiaoling Xu, Ronghua Wang and Beiqing Gu	Statistical Analysis of Type-I Censored Masked Data for Series System Under Process-Stress Accelerated Life Test
							107	Yi-Chao Yin, Chenggeng Huang, Yuan-Jian Yang, Yu Liu and Hong-Zhong Huang	A Life Prediction Method for High-Speed Impellers via Accelerated Life Tests
							112	Guo-Zhong Fu, Hong-Zhong Huang, Yan-Feng Li, Yuan-Jian Yang and Yi-Chao Yin	A Service Life Estimation Method for Offshore Electronic Control Module Based on Salt Spray Test
2F2	C	I-9	C-I-9	Repair models			40	Nicolas Bousquet and Franck Corset	Exploring the Consistency of Maximum Likelihood Estimator of Imperfect Repair ARA, I Models Computed from a Single Trajectory
							41	Franck Corset and Yann Dijoux	A Better-than-new Repair Model
							45	Ren Yan Jiang	An Approximation to Mean Time to the Next Failure for Repairable Systems
2F3	I	18	I-18	Multi-state and Continuous-state System Reliability	Anatoly Lisnianski and Gregory Levitin	Gregory Levitin	53	Gregory Levitin and Liudong Xing	State-space Event Transition Method for Evaluating Mission Reliability, Time and Cost
							54	Ping-Chen Chang and Lance Fiondella	Confidence-based Reliability Modeling of a Stochastic-Flow Production System

						55	Fumio Ohi	Stochastic Evaluation Methods of Multi-state Systems via Modular Decompositions – A Case of Partially Ordered States –	
						56	Chaonan Wang, Liudong Xing, and Rui Peng	Competing Failure Analysis in Phased-mission Systems with Global and Selective Propagation Effects	
2F4	I	19	I-19	Multi-state and Continuous-state System Reliability	Anatoly Lisnianski and Gregory Levitin	L. Khvatskin	57	Mu-Xia Sun, Yan-Fu Li, Enrico Zio	A Dynamic Programming Approach for the Efficient Reliability Evaluation of Multi-State Series-Parallel System
							58	Tian Zhang, Rui Peng, Wenbin Wang, Qingqing Zhai, and Yi Ding	Optimal Inspection and Replacement Strategy for Systems Subject to Two Types of Failures
							59	Lev Khvatskin, Ilya Frenkel and Anatoly Lisnianski	Importance Assessment of Aging Multi-state Water Cooling System by L _Z -transform Method
2G1	C	I-5	C-I-5	Optimization			7	Hadi Khorshidi, Indra Gunawan and M. Yousef Ibrahim	An Investigation on Imperialist Competitive Algorithm for Solving Reliability-Redundancy Allocation Problem
							47	Hailong Jing, Yunxia Chen and Rui Kang	Optimization method for Acceleration Factor Under Multiple Stresses and Failure Mechanisms
							74	Pin-Wei Chiang, Wei-Chun Hung, Ruey-Huei Yeh, Hui-Syuan Huang and Wen Liang Chang	A Study of Replacement Policy of Second-hand Products Under a Finite Planning Horizon
2G2	C	III-1	C-III-1	Statistical machine learning and its applications			17	Hassane Chraïbi, Aurelie Leger, Herve Barthelemy and Coraline Neiss Gaspard	A New Method and Tool for Reliability Assessments of Gated Spillway Systems
							48	Ping Jiang and Yunyan Xing	Multivariate Degradation Prediction Based on Mahalanobis Distance and Relevance Vector Machines
							92	Baptiste Gregorutti, Bertrand Michel and Philippe Saint-Pierre	Random Forest Permutation Importance and Multivariate Functional Regression
2G3	I	2	I-2	Advanced Topics in Importance Measures for System Reliability	Xiaoyan Zhu		4	Ali Riza Bozbulut and Serkan Eryilmaz	Reliability Importance in Systems with Weighted Components
							5	Shubin Si, Ning Wang, and Hongyan Dui	Protection for the Effects of the External Factors on System Reliability
							6	Jiangbin Zhao, Zhiqiang Cai, Hongguang Li, and Shubin Si	Reliability Optimization of Cir/Con/k/n System
2G4	I	23	I-23	OPTIMIZATION METHODS IN SYSTEMS RELIABILITY THEORY	Hisashi Yamamoto & Won Young Yun		69	Won Young Yun, Young-Jin Han, and Won-Seok Jeon	Preventive Maintenance Intervals for a Multi-unit System
							70	Tomoaki Akiba	Reliability of 3 Dimensional Consecutive-k System
							71	Xiao Xiao	Reconsideration of Network Types – the cases of e ⁿ⁺¹ , e ⁿ⁺² and e ⁿ⁺³ –
							105	Peng Zhao	Redundancy Allocation at Component Level Versus System Level
3A1	I	35	I-35	Stochastic Orders in Reliability Theory	Maochao Xu	Peng Zhao	106	Gaofeng Da	Component Level Versus System Level k-out-of-n Assembly Systems
							107	Weiyong Ding	On the Skewness of Extreme Order Statistics from Heterogenous Samples
							35	A. Adam Ding, Jin-Jian Hsieh, and Weijing Wang	Local Linear Estimation of Concordance Probability with Application to Covariate Effects Models on Association for Bivariate Failure-time Data
3A2	I	12	I-12	Lifetime Data Analysis	Mei-Ling Ting Lee		36	Deng-Huang Su, Tsung-Chiang Fu and Shu-Hui Chang	Nonparametric Association Analysis of Recurrent Gap Time Data with a Terminal Event
							37	(Tony) Jianguo Sun	Regression Analysis of Dependent Current Status Data under the Proportional Hazards Model
							23	William Volterman	Pooling Censored Samples: an Overview
3B1	I	8	I-8	Censoring Methodology and Associated Inferential Results	N. Balakrishnan		24	Chih Chun Tsai, Chien-Tai Lin and N. Balakrishnan	Optimal Design for Accelerated-Stress Acceptance Test Based on Wiener Process
							25	Hideki Nagatsuka	Parameter Estimation for the Generalized Pareto Distribution
							26	Yandan Yang, Hon Keung Tony Ng and Narayanaswamy Balakrishnan	A Stochastic Expectation-Maximization Algorithm for the Analysis of System Lifetime Data with Known Signature
3B2	I	9	I-9	Computational Methods in Reliability	N. Balakrishnan		27	Anna Dembinska	Discrete Order Statistics for Non-Identically Distributed Variates with Applications to Reliability
							28	Toshinari Kamakura	Likelihood-based Inference on Weibull Distribution
							90	Mitsuhiro Kimura, Naomichi Hata, and Takaji Fujiwara	Hidden Markov Analysis for Software Testing Performance Evaluation Based on Two-stage Testing by Two Teams
3C1	I	30	I-30	Software System Reliability II	Tadashi Dohi	Mitsuhiro Kimura	91	Shiriji Inoue and Shigeru Yamada	On Multiple Changes of Testing-environment in Software Reliability Assessment
							92	Qingpei Hu and Lujia Wang	Statistical Analysis of Software Reliability Growth Considering Detection and Correction
							93	Yoshinobu Tamura and Shigeru Yamada	Three Dimensional Wiener Processes Model and Optimal Software Maintenance Planning
3C2	I	31	I-31	Software System Reliability III	Tadashi Dohi	Hiroiyuki Okamura	94	Mamoru Ohara and Satoshi Fukumoto	A Note on Rejuvenation in Time Warp-Based Distributed Systems
							95	Mitsutaka Kimura, Mitsuhiro Imaizumi, and Toshio Nakagawa	Reliability Modelling of Distributed Communication Processing for a Cloud System with Data Updates
							10	Man Lai Tang and Hon Keung Tony Ng	Sequential Nonparametric Procedures for Testing the Equality of Two Lifetime Distributions
3D1	I	4	I-4	Analysis of Imperfect Reliability and Survival Data I	Hon Keung Tony Ng		11	Zhisheng Ye	New Estimating Equations for the Gamma Distribution
							12	Xingqiu Zhao	Sieve Maximum Likelihood Estimation for a General Class of Accelerated Hazards Models with Bundled Parameters
							13	Ping Shing Chan, Peng Zhao, and Hon Keung Tony	Optimal Allocation of Redundancies in Series Systems
3D2	I	5	I-5	Analysis of Imperfect Reliability and Survival Data II	Hon Keung Tony Ng		14	Man-Ho Ling, Hon Yiu So, and Narayanaswamy Balakrishnan	Proportional Hazards Model for One-Shot Device Testing Data Analysis
							15	Feng Su, Xiaojun Zhu, and N. Balakrishnan	Exact Likelihood Inference for Two Exponential Populations Based on Joint Generalized Type-I Hybrid Censoring
							41	Tomohiro Kitagawa, Tetsushi Yuge, and Shigeru Yanagi	Non-Periodic Inspection and Replacement Policy for a Multi-unit One-shot System with Minimal Repair
3E1	I	14	I-14	Maintenance Modeling II	Tetsushi Yuge	Tetsushi Yuge	42	Xufeng Zhao, Cunhua Qian, and Toshio Nakagawa	Optimal BeforeE-time Replacement Policies with Random Working Cycles
							43	Ferenc Szidarovszky, Harry Guo, Akio Matsumoto, Miklos Szidarovszky	Age Replacement with Competing Failure Modes
							44	Kodo Ito and Toshio Nakagawa	Stochastic Model of Commercial Airframe Maintenance
3E2	I	15	I-15	Maintenance Modeling III	Tetsushi Yuge	Mingchih Chen	45	Mingchih Chen, Cunhua Qian, Xufeng Zhao, and Toshio Nakagawa	Discrete Replacement Models with Works and Failures
							46	Satoshi Mizutani and Toshio Nakagawa	Extended Replacement Overtime Policies for Job with a Finite Number of Works
							7	Maxim Finkelstein and Ilya Gertsbakh	Preventive Maintenance of Systems Described by Signatures
3F1	I	3	I-3	Aging and maintenance in technical and biological systems	Maxim Finkelstein	Maxim Finkelstein	8	Mahmood Shafiee, Maxim Finkelstein, and Christophe Berenguer	On Stochastic Modelling of Maintenance for Continuously Monitored Systems Subject to Multiple Deterioration and External Shocks
							9	Trifon I. Missov and James W. Vaupel	Fixed-frailty Modeling Implications of Mortality Plateaus
							1	Zongke He, Zhengrong Shen and Debin Cheng	Design of Reliability Testing Plans for a Condensed System Based on Equal Acceptance Probability
3F2	C	I-7(5)	C-I-7(5)	Decision making in reliability			3	Cheng-Ta Yeh	Reliability Evaluation for a Multi-source Multi-sink Logistics Network with Stochastic Capacity
							25	Francisco Germán Badía and Carmen Sangüesa	Inventory Models with Nonlinear Shortage Costs and Stochastic Lead Times and Queueing Systems: Applications of Shape Properties of Randomly Stopped Counting Process
							53	Yunyan Xing and Ping Jiang	A Sequential Testing Method for Binomial Products in Varying Population Development
							86	Nasser Abosaq and Krishnan Subramaniam	Enhance the Prediction of Software Failure Times by Removing the Outliers
							114	Hongyan Dui and Liwei Chen	Integrated Importance Measure of System Survivability in Multi-state Protection Systems
3G1	I	38	I-38	Theory and Methods for System Reliability	LiRong Cui		115	Xujie Jia and Gang Li	Reliability Research of Multi-state Systems with Dependent Components Based on Copula
							116	Lirong Cui, Yan Li, and Jingyuan Shen	On Some Problems for Aggregated Stochastic Processes in Reliability
							117	Zhiqiang Cai & Shubin Si	Reliability Analysis of a Three Node WSN Model
							11	Ronghua Wang, Xiaoling Xu and Beiqing Gu	Depiction of Exponential Distribution by Using Order Statistics
3G2	C	I-4(6)	C-I-4(6)	System reliability			13	Syamsundar Annamraju	Assessing Reliability of Large and Complex Industrial Repairable Systems Using Big Data
							42	Wei-Chang Yeh, Haw-Sheng Wu and Chyh-Ming Lai	A Novel 2D Binary-State Angle Network and its Reliability Evaluation
							46	S. B. Singh and Khushal Singh Bohra	Evaluating Fuzzy System Reliability Using Intuitionistic Fuzzy Exponential Lifetime Distribution
							96	Zhiguo Zeng, Qingyuan Zhang, Yunxia Chen and Rui Kang	reliability Box as a Tool for Reliability Analysis in Presence of Epistemic Uncertainty
							116	Konul Bayramoglu	On Reliability and MRL Functions of Coherent Systems with Dependent Components in Active Redundancy
							118	Bharatendra Rai	Warranty Spend Prediction for Failures Influenced by Seasonality
4A1	I	39	I-39	Warranty Data Analysis	Stefanka Chukova and Yu Hayakawa	Yu Hayakawa	119	Xin Wang and Zhisheng Ye	Warranty Data Analysis Concerning Customer's Reporting Behaviour
							120	Stefanka Chukova and Yu Hayakawa	Auto Warranty Data: Estimation of the Mean Cumulative Function
							111	Serkan Eryilmaz	Some Results on Aging Properties and Stochastic Orders of Multi-state Systems
4B1	I	37	I-37	Structural Reliability and Aging Properties of Reliability Systems	Markos V. Koutras	Markos V. Koutras	112	Fotios Milienos, Narayanaswamy Balakrishnan and Markos Koutras	On the Start-up Demonstration Test Theory
							113	Markos Koutras, Narayanaswamy Balakrishnan, and Fotios Milienos	Mixed Start-up Demonstration Tests
							96	Mitsuhiro Imaizumi and Mitsutaka Kimura	Optimal Management Policy for a Control System Considering Security
4C1	I	32	I-32	Software System Reliability IV	Tadashi Dohi	Xiao Xiao	97	Syouji Nakamura, Xufeng Zhao, and Toshio Nakagawa	Optimal Sever Number of m-out-of-n System with n Servers for m Jobs
							98	Shunsuke Tokumoto and Tadashi Dohi	Interval Estimation of Optimal Software Rejuvenation Policy
							29	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
4D1	I	10	I-10	Deterioration models	Sophie Mercier		30	Christian Paroissin	Inference for the Wiener Process with Random Initiation Time
							31	Sophie Mercier, Anne Barros and Antoine Grall	A Multivariate Wear Process with Dependence Due to Shocks
							75	Tim Bedford	Managing Systemic Reliability Challenges for Offshore Windfarms
4E1	I	25	I-25	Determining reliability in complex engineered systems	Tim Bedford	Tim Bedford	76	Nikolaos Limnios	
							77	Takeshi Matsuoka	An Exact Method for Solving Loop Structured System in Reliability Analysis
							78	Vasily Krivtsov, Michael Frankstein, and Alex Yevkin	Recurrent Repair Analysis of Sibling Components
4F1	I	26	I-26	Repairable Systems	Paul Kvam and Vasily Krivtsov	Paul Kvam	79	Bo 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
							80	Edsel A. Pena and Piaomu Liu	Joint Dynamic Models in Reliability and Survival Analysis for Recurrent Competing Risks, Longitudinal Markers, and Terminal Events
							99	Sanjib Basu	Competing Risks Limited Failure Models: identifiability issues and Model Fitting
4G1	I	33	I-33	Statistical Innovations in Failure Time Modeling of Complex Systems	Ananda Sen	Ananda Sen	100	P. G. Sankaran	Modeling Lifetime Data Using Quantile Functions
							101	Fotios Milienos, Narayanaswamy Balakrishnan, and Markos Koutras	Semi-parametric Inference for Cure Rate Models