S-ID	I/C	S-No.	No.	Session title	Session organizer	Chair	Authors	Paper title
1A1	I	11	I-11	Inequalities for Order Statistics and System Lifetimes	Tomasz Rychlik	Tomasz Rychlik	Agnieszka Goroncy and Tomasz Rychlik	Bounds on the Expected Differences of Consecutive Order Statistics Based on the Increasing Failure Rate Samples
							Mariusz Bieniek	Optimal Bounds on Total Time on Test for Distributions with Decreasing Density or Failure Rate
							Patryk Miziuła	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	Houda Ghamlouch, Mitra Fouladirad, and Antoine Grall	Residual Lifetime Estimation and Stochastic Volatility: A Case Study
							Chien-Yu Peng and Hsueh-Fang Ai	A Study of Degradation Data with Measurement Errors
							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	Hiroyuki Okamura and Tadashi Dohi	A Note on Variational Bayes Approach for Software Reliability Growth Model with Normal Distribution
							Yasuhiro Saito and Tadashi Dohi	Nonparametric Maximum Likelihood Estimator with Software Fault Count Data
							Xiao Xiao	Haar Wavelet Regression Model for NHPP-based Software Reliability Assessment
1D1	I	24	I-24	Prognostic and Health Management (PHM)	Ming J. Zuo and Zhiliang Liu	Zhiliang Liu	Yaguo Lei, Naipeng Li, and Jing Lin	Remaining Useful Life Prediction of Rolling Element Bearings Based on the Exponential Model Combination with Particle Filtering
							Xiaowang Chen, Zhipeng Feng, and Ming Liang	Application of Synchrosqueezing Transform to Planetary Gearbox Fault Diagnosis Under Nonstationary Conditions
							Zhiliang Liu, Siyu Lei, Ming J. Zuo, Yong Qin, and Xinglin Li	Feature Ranking Based on Multi-metric Fusion for Bearing Fault Diagnosis
1E1	I	13	I-13	Maintenance Modeling I	Min Xie	Min Xie	Laurent Doyen, Olivier Gaudoin, and Syamsundar Annamraju	On Geometric Reduction of Age or Intensity Models for Imperfect Maintenance
							Bin Liu, Ruey-Huei Yeh, and Way Kuo	Inspection Scheduling for Multi-component Systems with Hidden Failures
							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 I	Anatoly Lisnianski and Gregory Levitin	Anatoly Lisnianski	Yan-Hui Lin, Yan-Fu Li, and Enrico Zio	Reliability Analysis of Systems with Multiple Dependent Competing Degradation Processes
							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
							Anatoly Lisnianski and Ilia Frenkel	On Sensitivity Analysis for Multi-state System by Using Lz-transform
1G1	I	1	I-1	Advanced Maintenance Strategy	Yisha Xiang and Nan Chen	Yisha Xiang	Nan Chen, Zhisheng Ye, Yisha Xiang, and Linmiao Zhang	Condition-based Maintenance Using the Inverse Gaussian Degradation Model
							Jan Bredlich, Yisha Xiang, Tongdan Jin, and Edward Pohl	Joint Planning for Preventive Maintenance and Multi-echelon Stocking
							Chao Fang	Risk Clustering and Importance Ranking in Engineering Projects
2A1	C	II-1	C-II-1	Statistical Inference		Uwe Jensen	Beiqing Gu, Xiaoling Xu, and Ronghua Wang	Statistical Analysis of Geometric Distribution for Masked Data
							Maurizio Guida, Fabio Postiglione, and Gianpaolo Pulcini	A Bayesian Estimation Procedure for the Non-homogeneous Gamma Process
							Uwe Jensen, Hong Chen, Maik Döring, Sebastian Bobrowski, and Wolfgang Schinköthe	Reliability Prediction Using Regression Models
2A2	C	I-11	C-I-11	Stochastic Ageing		Carmen Sangüesa	F. German Badía and Carmen Sangüesa	Negative Ageing Properties for Counting Processes Arising in Virtual Age Models
							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
							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	Haijun Li and Marco Scarsini	Haijun Li	Nozer Singpurwalla	Moshe Shaked's Excess Wealth: A Pathway to Prosperity
							Marco Scarsini	Moshe Shaked and Game Theory
							Alfred Muller	Between First and Second-order Stochastic Dominance
2A4	I	34	I-34	Stochastic Dependence in Reliability	Maochao Xu	Maochao Xu	Maochao Xu, Gaofeng Da, and Shouhuai Xu	Cyber Epidemic Models with Dependences
							Franco Pellerey, Saeed Zalzadeh, Félix Belzunce, and Carolina Martínez-Riquelme	Standard Stochastic Orders and Joint Stochastic Orders: Conditions on Survival Copulas for Mutual Relationships
							Jorge Navarro	Comparisons of Residual Lifetimes of Coherent Systems Under Dependence
2B1	C	II-2	C-II-2	Lifetime Data Analysis			Eric Beutner, Laurent Bordes and Laurent Doyen	Failure of the Profile Likelihood Method for Semi-parametric Virtual Age Models
							Ren Yan Jiang	A Two-fold Mixed Power-law Model with a Time-varying Mixture Proportion for Modeling Failure Intensity
							Félix Belzunce, Carolina Martínez-Riquelme, Franco Pellerey, and Saeed Zalzadeh	Comparison of Residual Lives for Dependent Random Variables
2B2	C	II-4	C-II-4	Order Statistics/Statistical Quality Control		Félix Belzunce	Félix Belzunce, Carolina Martínez-Riquelme, and José M. Ruiz	Stochastic Comparisons of Relative Spacings with Applications in Reliability
							Pawel Marcin Kozyra and Tomasz Rychlik	Optimal Evaluations of Expected L-statistics Gauged in the Gini Mean Difference Units
							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	C. Shane Reese	A Hierarchical Model for the Reliability of Complex Multi-component Systems
							Kassandra M. Fronczyk, Rebecca M. Dickinson, Alyson G. Wilson, Caleb S. Browning, and Laura J. Freeman	Bayesian Hierarchical Models for Common Components Across Multiple System Configurations
							Caleb S. Browning, Laura J. Freeman, Alyson G. Wilson, Rebecca M. Dickinson, and Kassandra M. Fronczyk	Estimating System Reliability from Heterogeneous Data
2B4	I	7	I-7	Bayesian Reliability Inference and Warranty Predictions	Sheng-Tsaing Tseng	Sheng-Tsaing Tseng	Tsai-Hung Fan and Cian-Hui Chen	A Bayesian Reliability Analysis Under Gamma Step-stress Accelerated Degradation Process
							Yincai Tang and Pingping Wang	Bayesian Inference for Degradation Data with One Change Point
							Shun-Lin Jeng	Failure Predictions for the Warranty Analysis Utilizing the Historical Data of Similar Products
							Sheng-Tsaing Tseng and Nan-Jung Hsu	Combined Inference of Laboratory and Field Data with Application to Warranty Prediction for Highly-reliable Products
2C1	C	I-2	C-I-2	k-out-of-n Systems		Hisashi Yamamoto	Huan Yu, Jun Yang, and Yu Zhao	Circular Multi-state Consecutively-connected Systems with Dual Constraints of m Consecutive Gaps and n Total Gaps
							Cihangir Kan	A Note on Circular m-consecutive-k, l-out-of-r. F Systems
							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
2C2	C	II-3	C-II-3	System Reliability		Femin Yalcin Gulec	Wenjun Gong and Yunxia Chen	Reliability of Multi-state Systems Considering Conditional Cascading Failure Mechanism
							Ceki Franko and Femin Yalcin	Signatures of Some Systems Consisting of Non-Disjoint Modules
							Ionescu Dorina Romina, Nicolae Brinzei, and Jean-François Petin	Modular Approach for Dependability and Reliability Assessment of Complex Systems
2C3	I	36	I-36	System Reliability and Life Testing	Bo Henry Lindqvist	Bo Henry Lindqvist	Francisco J. Samaniego and Jorge Navarro	On Comparing Systems with Heterogeneous Components via Survival Signatures
							Jorge Navarro and Francisco J. Samaniego	Comparing Systems by Distortion Functions
							Jan Terje Kvaløy, Bo Henry Lindqvist and Stein Aaserud	Residuals and Functional Form in Accelerated Life Regression Models
2C4	I	21	I-21	New Approaches in Reliability Estimation and Diagnostic Testing	Bo Henry Lindqvist	Bo Henry Lindqvist	Paul Kvam and Jye-Chyi Lu	An Extended Skill Test for Disease Diagnosis Based on the Receiver Operator Characteristic
							Ananda Sen and Anupap Somboonsavatdee	Recurrent Events Under Dependent Competing Risks and Missing Cause of Failure
							Vaclav Slimacek and Bo Henry Lindqvist	Non-homogeneous Poisson Process with Nonparametric Frailty and Covariates
2D1	C	I-6	C-I-6	Decision Making in Reliability		Kevin James Wilson	Kevin Wilson and John Quigley	Sequencing Reliability Growth Tasks Using Multiattribute Utility Functions
							Qingqing Zhai, Jun Yang, Rui Peng, and Yu Zhao	Reliability Evaluation of Warm Standby Systems Based on Multivalued Decision Diagram – An Automatic Approach
							Dong Wang, Ping Jiang, and Bo Guo	Involvement of Dependency Uncertainties in Fault Tree Analysis Using Hybrid Approach
2D2	C	I-10	C-I-10	Maintenance/Repair Models		Hennie Husniah	Hennie Husniah, Udjianna S. Pasaribu, Andi Cakravastia, and Bermawi P. Iskandar	Maintenance Contract with Dynamic Operating Conditions
							Richard Arnold, Stefanka Chukova, and Yu Hayakawa	Warranty Cost Analysis: Increasing Warranty Repair Times
							Yves Langeron, Mitra Fouladirad, and Antoine Grall	Controlled Systems, Failure Prediction and Maintenance
2D3	I	20	I-20	Network Reliability Analysis	Ming J. Zuo	Ming J. Zuo	Ding-Hsiang Huang and Yi-Kuei Lin	Demand Satisfaction of a Hybrid Flow-shop with Completion Time Consideration
							Wei-Chang Yeh, Yi-Yun Chang, and Chyh-Ming Lai	A Simple Path-based Algorithm for Evaluating the Reliability of a Deteriorated Multi-state Flow Network
							Guanghan Bai, Zhigang Tian, and Ming J. Zuo	An Improved Algorithm for Searching for Minimal Paths in Two-terminal Networks
2D4	I	22	I-22	Online Monitoring	Kazuyuki Suzuki	Kazuyuki Suzuki	Yili Hong	Using Degradation Data with Dynamic Covariates to Do Online Monitoring
							Watalu Yamamoto	Time Scales for Online Monitoring Data
							Lu Jin and R. P. D. J. Rajapaksha	Optimal Decision Policy for Deteriorating Systems with On-line Monitoring in a Varying Environment Under Selectable Operations
2E1	C	I-1	C-I-1	Stochastic Processes in Reliability		Mario Hellmich	Zeina Al Masry, Sophie Mercier, and Ghislain Verdier	Simulation Techniques and Approximated Distribution of an Extended Gamma Process
							Mario Hellmich	Generalized Markov Processes for Systems with Periodic Surveillance Testing and Monte Carlo Simulation
							Fei Sun, Tongdan Jin, and Yi Ding	Modeling Aggregate Fleet Renewals with Uncertain System Installation Times
2E2	C	I-8	C-I-8	Maintenance Models		Christophe Berenguer	Zhijun Cheng, Yaning Qiao, and Bo Guo	Imperfect Maintenance Model of Pavement Based on Markov Decision Process
							Hiroshi Shida, Hirofumi Oogushi, Yoshinobu Higami, Hirohisa Aman, and Hiroshi Takahashi	A Proposal of Maintenance Cost Model of Track Circuits
							Romain Lesobre, Keomany Bouvard, Christophe Berenguer, Vincent Cocquempot, and Anne Barros	A Design Approach for MFOP-based Maintenance Policy of Multi-component Systems
2E3	I	27	I-27	Sensitivity Analysis of Reliability Systems I	Vladimir Rykov	Vlaimir Rykov	Boyan Dimitrov and Sahib Esa	On the Local Dependence Structure in Politics and in Reliability Distributions
							Vladimir Rykov and Victor Itkin	On Sensitivity of Reliability Systems Operating in Random Environment to Shape of Their Input Distributions
							Dmitry Efrosinin, Janos Sztrik, and Mais Farkhadov	Reliability and Sensitivity Analysis of an Aging Unit with a Hysteresis Policy for the Repair Facility Activation
2E4	I	28	I-28	Sensitivity Analysis of Reliability Systems II	Vladimir Rykov	Dmitry Efrosinin	Mikhail Sukharev	Reliability Indices Estimation of Pipeline Networks
							Oleg Abramov and Dmitry Nazarov	Application of Regions of Acceptability for Sensitivity Analysis
							Igor Gurevich and Mais Farkhadov	Investigation Characteristics and Properties of Queueing Networks to Provide Their Sustainability
2F1	I	II-3	C-II-3	Accelerated? Life Testing			Xiaoling Xu, Ronghua Wang, and Beiqing Gu	Statistical Analysis of Type-I Censored Masked Data for Series System Under Process–Stress Accelerated Life Test
							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
							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		Franck Corset	Nicolas Bousquet and Franck Corset	Exploring the Consistency of Maximum Likelihood Estimator of Imperfect Repair ARA_1 Models Computed from a Single Trajectory
							Franck Corset and Yann Dijoux	A Better-than-new Repair Model
							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 II	Anatoly Lisnianski and Gregory Levitin	Gregory Levitin	Gregory Levitin and Liudong Xing	State-space Event Transition Method for Evaluating Mission Reliability, Time and Cost
							Ping-Chen Chang, Lance Fiondella, and Yi-Kuei Lin	Confidence-based Reliability Modeling of a Stochastic-flow Production System
							Fumio Ohi	Stochastic Evaluation Methods of Multi-state Systems via Modular Decompositions – A Case of Partially Ordered States –
2F4	I	19	I-19	Multi-state and Continuous-state System Reliability III	Anatoly Lisnianski and Gregory Levitin	L. Khvatskin	Chaonan Wang, Liudong Xing, and Rui Peng	Competing Failure Analysis in Phased-mission Systems with Global and Selective Propagation Effects
							Mu-Xia Sun, Yan-Fu Li, and Enrico Zio	A Dynamic Programming Algorithm for Multi-state Series Parallel System Availability Evaluation
							Tian Zhang, Rui Peng, Wenbin Wang, Qingqing Zhai, and Yi Ding	Optimal Inspection and Maintenance of Systems Subject to Two Types of Failures
							Lev Khvatskin, Ilia Frenkel, and Anatoly Lisnianski	Importance Assesment of Aging Multi-state Water Cooling System by LZ-transform Method
2G1	I	5	I-5	Optimization			Hailong Jing, Yunxia Chen, and Rui Kang	Optimization Method for Acceleration Factor Under Multiple Stresses and Failure Mechanisms
							Wei-Chun Hung, Pin-Wei Chiang, Ruey-Huei Yeh, Hui-Syuan Huang, and Wen Liang Chang	Optimization Method for Acceleration Factor Under Multiple Stresses and Failure Mechanisms
2G2	C	III-1	C-III-1	Statistical Machine Learning and Its Applications			Hassane Chraibi, Aurelie Leger, Herve Barthomeuf and Coraline Neiss	GASPART: A New Method and Tool for Reliability Assessments of Gated Spillway Systems
							Baptiste Gregorutti, Bertrand Michel, and Philippe Saint-Pierre	Random Forest Permutation Importance and Multivariate Functional Regression
							Sanjib Basu	Competing Risks Limited Failure Models: Identifiability Issues and Model Fitting
2G3	I	33	I-33	Statistical Innovations in Failure Time Modeling of Complex Systems	Ananda Sen	Ananda Sen	Paduthol. G. Sakaran	Modeling and Analysis of Lifetime Data Using Quantile Function
							Fotios S. Milienos, Narayanaswamy Balakrishnan, and Markos V. Koutras	Semi-parametric Inference for Cure Rate Models
2G4	I	2	I-2	Advanced Topics in Importance Measures for System Reliability	Xiaoyan Zhu	Xiaoyan Zhu	Ali Riza Bozbulut and Serkan Eryilmaz	Reliability Importance in Weighted-k-out-of-n Systems
							Shubin Si, Ning Wang, and Hongyan Dui	Protection for the Effects of the External Factors on System Reliability
							Shuai Zhang, Jiangbin Zhao, Zhiqiang Cai, Hongguang Li, and Shubin Si	Reliability Optimization of Cir/Con/k/n System
3A1	I	35	I-35	Stochastic Orders in Reliability Theory	Maochao Xu	Peng Zhao	Peng Zhao	Redundancy Allocation at Component Level Versus System Level
							Weiyong Ding and Gaofeng Da	Component Level Versus System Level k-out-of-n Assembly Systems
							Weiyong Ding and Xiaolang Ling	On the Skewness of Extreme Order Statistics from Heterogeneous Samples
3A2	I	12	I-12	Lifetime Data Analysis	Mei-Ling Ting Lee	Shu-Hui Chang	A. Adam Ding, Jin-Jian Hsieh, and Weijing Wang	Estimating Covariate Effects on Association for Bivariate Survival Data Through Local Linear Method
							Deng-Huang Su, Tsung-Chiung Fu, and Shu-Hui Chang	Nonparametric Association Analysis of Recurrent Gap Time Data with a Terminal Event
							Jianguo Sun	Regression Analysis of Dependent Current Status Data under the Proportional Hazards Model
3B1	I	8	I-8	Censoring Methodology and Associated Inferential Results	Narayanswamy Balakrishnan	Ping Shing Chan	William Volterman	Pooling Censored Samples: an Overview
							Chih Chun Tsai, Chien-Tai Lin, and Narayanaswamy Balakrishnan	Optimal Design for Accelerated–stress Acceptance Test Based on Wiener Process
							Hideki Nagatsuka and Narayanaswamy Balakrishnan	On Parameter Estimation for the Generalized Pareto Distribution
3B2	I	9	I-9	Computational Methods in Reliability	Narayanswamy Balakrishnan	Chien-Tai Lin	Yandan Yang, Hon Keung Tony Ng, and Narayanaswamy Balakrishnan	A Stochastic Expectation-Maximization Algorithm for the Analysis of System Lifetime Data with Known Signature
							Anna Dembińska	Discrete Order Statistics for Non-Identically Distributed Variates with Applications to Reliability
							Toshinari Kamakura and Takenori Sakumura	Likelihood-based Inference on Weibull Distribution
3C1	I	30	I-30	Software System Reliability II	Tadashi Dohi	Xiao Xiao	Mitsuhiro Kimura, Naomichi Hata, and Takaji Fujiwara	Hidden Markov Analysis for Software Testing Performance Evaluation Based on Two-stage Testing by Two Teams
							Shinji Inoue and Shigeru Yamada	On Multiple Changes of Testing-environment in Software Reliability Assessment
							Qingpei Hu and Lujia Wang	Statistical Analysis of Software Reliability Growth Considering Detection and Correction
3C2	I	31	I-31	Software System Reliability III	Tadashi Dohi	Hiroyuki Okamura	Yoshinobu Tamura and Shigeru Yamada	Three Dimensional Wiener Processes Model and Optimal Software Maintenance Planning
							Mamoru Ohara and Satoshi Fukumoto	A Note on Rejuvenation in Time Warp-Based Distributed Systems
							Mitsutaka Kimura, Mitsuhiro Imaizumi, and Toshio Nakagawa	Reliability Modelling of Distributed Communication Processing for a Cloud System with Data Updates

Session	Type	No.	Organized Session	Organizer 1	Organizer 2	Authors	Title
3D1	I	4	I-4 Analysis of Imperfect Reliability and Survival Data I	Hon Keung Tony Ng	Man-Ho Ling	Man Lai Tang and Hon Keung Tony Ng	Sequential Nonparametric Procedures for Testing the Equality of Two Lifetime Distributions
						Zhisheng Ye	New Estimating Equations for the Gamma Distribution
						Xingqiu Zhao, Yuanshan Wu, and Guosheng Yin	Sieve Maximum Likelihood Estimation for a General Class of Accelerated Hazards Models with Bundled Parameters
3D2	I	5	I-5 Analysis of Imperfect Reliability and Survival Data II	Hon Keung Tony Ng	Hon Keung Tony Ng	Ping Shing Chan, Peng Zhao, and Hon Keung Tony Ng	Optimal Allocation of Redundancies in Series Systems
						Man-Ho Ling, Hon Yiu So, and Narayanaswamy Balakrishnan	Analysis for One-shot Device Testing Data with Competing Risks
						Feng Su, Xiaojun Zhu, and Narayanaswamy Balakrishnan	Exact Likelihood Inference for Two Exponential Populations Based on Joint Generalized Type-I Hybrid Censoring
3E1	I	14	I-14 Maintenance Modeling II	Tetsushi Yuge	Tetsushi Yuge	Tomohiro Kitagawa, Tetsushi Yuge, and Shigeru Yanagi	Non-Periodic Inspection and Replacement Policy for a Multi-unit One-shot System with Minimal Perair
						Xufeng Zhao, Khalifa N. Al-Khalifa, Won Young Yun, and Toshio Nakagawa	Optimal Undertime Replacement Polices with Random Working Cycles
						Ferenc Szidarovszky, Harry Guo, Akio Matsumoto, and Miklós Szidarovszky	Age Replacement with Competing Failure Modes
3E2	I	15	I-15 Maintenance Modeling III	Tetsushi Yuge	Mingchih Chen	Kodo Ito and Toshio Nakagawa	A Stochastic Model of Commercial Airframe Maintenance
						Mingchih Chen, Cunhua Qian, Xufeng Zhao, and Toshio Nakagawa	Discrete Replacement Models with Works and Failures
						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	Maxim Finkelstein and Ilya Gertsbakh	Preventive Maintenance of Systems Described by Signatures
						Mahmood Shafiee, Maxim Finkelstein, and Christophe Berenguer	On Stochastic Modelling of Maintenance for Continuously Monitored Systems Subject to Multiple Deterioration and External Shocks
						Trifon I. Missov and James W. Vaupel	Fixed-frailty Modeling Implications of Mortality Plateaus
3F2	C	I-7(5)	C-I-7(5) Decision Making in Reliability		Cheng-Ta Yeh (#1) / Nasser Hassan Abosaq (#2)	Zongke He, Zhengrong Shen, and Debin 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
						Francisco Germán Badía and Carmen Sangüesa	Inventory Models with Stochastic Lead Times and Queueing 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 Abosaq and Krishnan Subramaniam	Enhance Prediction of Software Failure Times by Removing the Outliers
3G1	I	38	I-38 Theory and Methods for System Reliability	Lirong Cui	Lirong Cui	Hongyan Dui and Liwei Chen	Integrated Importance Measure of System Survivability in Multi-state Protection Systems
						Xujie Jia, Aoxue Su, Shangwei Zhao, and Zhongping Li	Reliability Analysis of the Life Dependent Safety-critical System with Three-states Based on Copula
						Zhiqiang Cai, Yang Li, Shubin Si, and Lili Zhang	Reliability Analysis of a Three Node WSN Model
						Lirong Cui, Yan Li, and Jingyuan Shen	On Some Problems for Aggregated Stochastic Processes in Reliability
3G2	C	I-4(6)	C-I-4(6) System Reliability		Annamraju Syamsundar (#1)	Ronghua Wang, Xiaoling Xu, and Beiqing Gu	Depiction of Exponential Distribution by Using Order Statistics
						Syamsundar Annamraju	Assessing Reliability of Large and Complex Industrial Repairable Systems Using Multi Level Modelling and Big Data
						Wei-Chang Yeh, Haw-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 Intuitivistic 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
						Konul Bayramoglu	On Reliability and MRL Functions of Coherent Systems with Active Redundancy
4A1	I	39	I-39 Warranty Data Analysis	Stefanka Chukova and Yu Hayakawa	Yu Hayakawa	Bharatendra Rai	Warranty Spend Prediction for Failures Influenced by Seasonality
						Xin Wang and Zhisheng Ye	Warranty Data Analysis Concerning Report Behaviour of Customers
						Stefanka Chukova and Yu Hayakawa	Auto Warranty Data: Estimation of the Mean Cumulative Function
4B1	I	37	I-37 Structural Reliability and Aging Properties of Reliability Systems	Markos V. Koutras	Markos V. Koutras	Serkan Eryilmaz	Some Results on Aging Properties and Stochastic Orders of Multi-state Systems
						Fotios S. Milienos, Narayanaswamy Balakrishnan, and Markos V. Koutras	On the Start-up Demonstration Test Theory
						Markos V. Koutras, Narayanaswamy Balakrishnan, and Fotios S. Milienos	Mixed Start-up Demonstration Tests
4C1	I	32	I-32 Software System Reliability IV	Tadashi Dohi	Mitsuhiro Kimura	Mitsuhiro Imaizumi and Mitsutaka Kimura	Optimal Management Policy for a Control System Considering Security
						Syouji Nakamura, Xufeng Zhao, and Toshio Nakagawa	Optimal Sever Number of m-out-of-n System with n Servers for m Jobs
						Shunsuke Tokumoto and Tadashi Dohi	Interval Estimation of Optimal Software Rejuvenation Policy
4D1	I	10	I-10 Deterioration Models	Sophie Mercier	Sophie Mercier	Ji Hwan Cha, Inmaculada T. Castro, and Carmen Sangüesa	Assessment of a Condition-based Maintenance Strategy for a System Subject to Degradation Failures and Catastrophic Failures Sharing an Initial Common Source
						Christian Paroissin	Inference for the Wiener Process with Random Initiation Time
						Sophie Mercier, Anne Barros, and Antoine Grall	A Multivariate Degradation Model with Dependence Due to Shocks
4E1	I	25	I-25 Determining Reliability in Complex Engineered Systems	Tim Bedford	Tim Bedford	Tim Bedford, Athena Zitrou, Lesley Walls, Kevin Wilson, and Keith Bell	Managing Systemic Reliability Challenges for Offshore Windfarms
						Takeshi Matsuoka	An Exact Method for Solving Loop Structured System in Reliability Analysis
4F1	I	26	I-26 Repairable Systems	Paul Kvam and Vasiliy Krivtsov	Paul Kvam	Vasiliy Krivtsov, Michael Frankstein, and Alex Yevkin	Recurrent Repair Analysis of Sibling Components
						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
						Edsel A. Peña and Piaomu Liu	Joint Dynamic Modeling of Recurrent Competing Risks and a Terminal Event
4G1	I	23	I-23 Optimization Methods in Systems Reliability Theory	Hisashi Yamamoto and Won Young Yun	Won Young Yun	Won Young Yun, Young Jin Han, and Won Seok Jeon	Preventive Maintenance Intervals for a Multi-unit System
						Tomoaki Akiba, Natsumi Takahashi, and Hisashi Yamamoto	Reliability of 3-Dimensional Consecutive-k System
						Xiao Xiao, Natsumi Takahashi, Yi Chen, and Hisashi Yamamoto	Reconsideration of Network Types – the cases of e=n+1, e=n+2 and e=n+3 –