CONFERENCE PROGRAM

21ST ISSAT INTERNATIONAL CONFERENCE

RELIABILITY and QUALITY in DESIGN

PHILADELPHIA, PENNSYLVANIA, U.S.A. ★ AUGUST 6 – 8, 2015

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Awards

ISSAT RQD 2014 Best Paper Award

Replacement First and Last for a Parallel System

Mingchih Chen *(Fu Jen Catholic University, Taiwan)*
Xufeng Zhao *(Aichi Institute of Technology, Japan)*
Toshio Nakagawa *(Aichi Institute of Technology, Japan)*

ISSAT RQD 2014 Best Student Paper Award

Optimum Life Testing Plans under Progressive Censoring

Ritwik Bhattacharya *(Indian Statistical Institute, India)*
Biswabrata Pradhan *(Indian Statistical Institute, India)*
Anup Dewanji (*Indian Statistical Institute, India)*

Conference at a Glance

THURSDAY, AUGUST 6	FRIDAY, AUGUST 7	SATURDAY, AUGUST 8
8:00 - 9:00 Registration / Continental Breakfast Grand Ballroom Prefunction area (Floor 2)	8:00 - 8:15 Registration / Continental Breakfast Grand Ballroom Prefunction area (Floor 2)	8:15 - 8:30 Registration / Continental Breakfast Grand Ballroom Prefunction area (Floor 2)
9:00 - 9:15 Welcome - Awards Presentation Grand Ballroom A (Floor 2)	8:15 - 9:30 Technical Sessions Grand Ballroom A & B (Floor 2)	8:30 - 10:00 Technical Sessions Grand Ballroom A & B (Floor 2)
9:20 - 10:35 Technical Sessions Grand Ballroom A & B (Floor 2)	9:30 - 9:45 Coffee Break Grand Ballroom Prefunction area (Floor 2)	10:00 - 10:15 Coffee Break Grand Ballroom Prefunction area (Floor 2)
10:35 - 10:50 Coffee Break Grand Ballroom Prefunction area (Floor 2)	9:45 - 11:45 Tutorial Session Grand Ballroom A (Floor 2)	10:15 - 12:15 Technical Sessions Grand Ballroom A & B (Floor 2)
10:50 - 12:05 Technical Sessions Grand Ballroom A & B (Floor 2)	12:00 - 1:00 Conference Luncheon Riverview Room B & C (Floor 3)	12:15 Adjourn!
1:15 - 2:45 Technical Sessions Grand Ballroom A & B (Floor 2)	1:15 - 2:45 Technical Sessions Grand Ballroom A & B (Floor 2)	
2:45 - 3:00 Coffee Break Grand Ballroom Prefunction area (Floor 2)	2:45 - 3:00 Coffee Break Grand Ballroom Prefunction area (Floor 2)	
3:00 - 5:00 Panel Session Grand Ballroom A (Floor 2)	3:00 - 5:00 Technical Sessions Grand Ballroom A (Floor 2)	
5:30 - 7:30 Welcome Reception Columbus Ballroom A		

Technical Sessions at a Glance

	GRAND BALLROOM A		GRAND BALLROOM B	
Thursday, Aug. 6	Session No.	Title	Session No.	Title
9:20 - 10:35	1	Statistical Reliability Modeling & Its Applications	2	Quality Engineering in Design
10:50 - 12:05	3	Maintenance and Reliability Modeling & Optimization	4	Security Analytics & Modeling
1:15 - 2:45	5	Multistate Network Reliability & Process Improvement	6	Software Reliability Modeling and Its Applications
3:00 - 5:00	7 & 8	Panel Session: Challenges and Opportunities in Reliability		
Friday, Aug. 7	Session No.	Title	Session No.	Title
8:15 - 9:30	9	Software Quality & Reliability Modeling	10	System Reliability, Safety and Failure Analysis
9:45 - 11:45	11 & 12	Tutorial Session: Reliability Burn-In and Environmental Stress Screening - Statistical Quantification		
1:15 - 2:45	13	Multi-State System Reliability Modeling & Its Applications	14	Security Analytics & Applications
3:00 - 5:00	15	Mechanical Reliability Modeling & Prediction	16	Software Quality and Reliability Assessment and Applications
Saturday, Aug. 8	Session No.	Title	Session No.	Title
8:30 - 10:00	17	Automotive Reliability Modeling & Distribution Networks	18	Maintenance Optimization & Its Applications
10:15 - 12:15	19	Reliability and Maintenance Modeling & Applications	20	System Modeling & Simulation & Its Applications

Technical Sessions

SESSION 1: Statistical Reliability Modeling & Its Applications
Chair: Prof. D. Gary Harlow *(Lehigh University, USA)*

Reliability Metrics and Key Performance Indicators for Cloud-Based Virtualization Applications
Xuemei Zhang *(AT&T, USA)*
Carolyn Johnson *(AT&T, USA)*

Sequential ALT Plans for Systems with Mixture of Units
Yao Cheng *(Rutgers University, USA)*
E. A. Elsayed *(Rutgers University, USA)*

Additive Manufacturing of Ti6Al4V: Statistical Modeling
D. Gary Harlow *(Lehigh University, USA)*

SESSION 2: Quality Engineering in Design
Chair: Prof. Gordon Savage *(Univ. of Waterloo, Canada)*

Development of Mathematical Model for Quality-Cost Optimization
N. V. R. Naidu *(M S Ramaiah Institute of Technology, India)*
M. Shilpa *(M S Ramaiah Institute of Technology, India)*

Pareto Frontier in Economic-Statistical Design of a Dynamic *c* Chart
Antonella Certa *(Università degli Studi di Palermo, Italy)*

Stability Analysis of Uncertain Systems Using Singular Value Decomposition-Based Stability Metric
Young Kap Son *(Andong National University, South Korea)*
Gordon J. Savage *(University of Waterloo, Canada)*

SESSION 3: Maintenance and Reliability Modeling & Optimization
Chair: Dr. Mitsutaka Kimura *(Gifu City Women's College, Japan)*

Optimal Checkpoint Times for Grouped Redundant Arrays Inexpensive Computer Nodes (GRAICN)
Kenichiro Naruse *(Nagoya Sangyo University, Japan)*
Toshio Nakagawa *(Aichi Institute of Technology, Japan)*

Reliability Evaluations of a Control System Connected with the Network
Mitsuhiro Imaizumi *(Aichi Gakusen University, Japan)*
Mitsutaka Kimura *(Gifu City Women's College, Japan)*

An Extended Model of Real-Time Distributed Systems for Cloud Computing
Mitsutaka Kimura *(Gifu City Women's College, Japan)*
Mitsuhiro Imaizumi *(Aichi Gakusen University, Japan)*
Toshio Nakagawa *(Aichi Institute of Technology, Japan)*

SESSION 4: Security Analytics & Modeling
Chair: Prof. Taghi M. Khoshgoftaar *(Florida Atlantic Univ., USA)*

Attack Commonalities: Extracting New Features for Network Intrusion Detection
Maryam M. Najafabadi *(Florida Atlantic Univ., USA)*
Taghi M. Khoshgoftaar *(Florida Atlantic Univ., USA)*
Charles Wheelus *(Florida Atlantic Univ., USA)*

Concurrency Analysis of the Universal Physical Access Control System (UPACS)
Clyde Carryl *(Florida Atlantic University, USA)*
Bassem Alhalabi *(Florida Atlantic University, USA)*
Ravi Shankar *(Florida Atlantic University, USA)*

The Importance of Representative Network Data on Classification Models for the Detection of Specific Network Attacks
Maryam M. Najafabadi *(Florida Atlantic Univ., USA)*
Taghi M. Khoshgoftaar *(Florida Atlantic Univ., USA)*
Clifford Kemp *(Florida Atlantic Univ., USA)*

SESSION 5: Multistate Network Reliability & Process Improvement

Chair: Dr. Ping-Chen Chang *(National Taiwan University of Science & Technology, Taiwan)*

Machine Scheduling with Availability and Transportation Considerations

Jason Chao-Hsien Pan *(Takming University of Science and Technology, Taiwan)*
Chi-Shiang Su *(National Taipei University of Technology, Taiwan)*

The Study of Multipath TCP Networks under Latency with Retransmission Mechanism

Yu-Chieh Liao *(National Taiwan Univ of Sci & Tech, Taiwan)*
Yi-Kuei Lin *(National Taiwan Univ of Sci & Tech, Taiwan)*
Chih-Li Pan *(National Taiwan Univ of Sci & Tech, Taiwan)*

Developing Process Quality Indices Based on Six Sigma Quality Level

Kuen-Suan Chen *(National Chin-Yi University of Technology, Taiwan)*
Tsang-Chuan Chang *(National Chin-Yi University of Technology, Taiwan)*
Yun-Tsan Lin *(National Chin-Yi University of Technology, Taiwan)*

Confidence-Based Reliability Evaluation of Multistate Production Network with Process Improvement

Yun-Ling Cho *(National Taiwan Univ of Sci & Tech, Taiwan)*
Ping-Chen Chang *(National Taiwan Univ of Sci & Tech, Taiwan)*
Yi-Kuei Lin *(National Taiwan Univ of Sci & Tech, Taiwan)*

SESSION 6: Software Reliability Modeling and Its Applications

Chair: Dr. Yoshinobu Tamura *(Yamaguchi Univ., Japan)*

Optimal Maintenance Problem Based on Hazard Rate Model for Mobile Clouds

Yumi Nobukawa *(Tottori University, Japan)*
Yoshinobu Tamura *(Yamaguchi University, Japan)*
Shigeru Yamada *(Tottori University, Japan)*

Estimating Optimal Software Release Time Based on a Change-Point Model by Multi-Attribute Utility Theory

Yuka Minamino *(Tottori University, Japan)*
Shinji Inoue *(Tottori University, Japan)*
Shigeru Yamada *(Tottori University, Japan)*

Software Quality Prediction Based on Generalized Linear Models

Shinji Inoue *(Tottori University, Japan)*
Shigeru Yamada *(Tottori University, Japan)*

Reliability Assessment Based on Jump Diffusion Model for Cloud Computing under the Influence of Big Data

Yoshinobu Tamura *(Yamaguchi University, Japan)*
Shigeru Yamada *(Tottori University, Japan)*

SESSIONS 7 & 8: Challenges and Opportunities in Reliability

Chair: Dr. Feng-Bin Sun *(Tesla Motors, USA)*

Panelists:

Prof. Hoang Pham *(Rutgers University, USA)*
Reliability Computing
Prof. Balbir Dhillon *(University of Ottawa, Canada)*
Human Reliability and Safety
Prof. Gary Harlow *(Lehigh University, USA)*
Mechanical Reliability
Dr. Alexander Parkhomovsky *(JDSU, USA)*
Design for Reliability from Failure Physics Perspective
Dr. Zishan Wei *(MKS Instruments, USA)*
Reliability Testing and Management

SESSION 9: Software Quality & Reliability Modeling

Chair: Dr. Kehan Gao *(Eastern Connecticut State Univ., USA)*

A Framework of Combining Data Pre-Processing Methods and Boosting for Software Quality Classification

Taghi M. Khoshgoftaar *(Florida Atlantic Univ., USA)*
Kehan Gao *(Eastern Connecticut State Univ., USA)*
Amri Napolitano *(Florida Atlantic University, USA)*
Lofton A. Bullard *(Florida Atlantic University, USA)*

Operational Software Reliability Prediction by Random Forest Based on Development Project Data with Qualitative Variables

Y. Arai *(Hosei University, Japan)*
M. Kimura *(Hosei University, Japan)*

Filter-Based Feature Subset Selection and Data Sampling for Fault-Prone Program Module Prediction

Kehan Gao *(Eastern Connecticut State University, USA)*
Taghi M. Khoshgoftaar *(Florida Atlantic University, USA)*
Amri Napolitano *(Florida Atlantic University, USA)*

SESSION 10: System Reliability, Safety and Failure Analysis

Chair: Prof. B.S. Dhillon *(University of Ottawa, Canada)*

A SHELF – Swiss Cheese Model for Aviation Safety

Po Chung Tong *(The Hong Kong Polytechnic University, Hong Kong)*
Hei Tung Chau *(The Hong Kong Polytechnic University, Hong Kong)*
Tsun Tai Wong *(The Hong Kong Polytechnic University, Hong Kong)*

Combinatorial Algorithm of Wordlength Pattern for Two-level Fractional Factorial Designs

Jen-der Day *(National Kaohsiung University of Applied Sciences, Taiwan)*

Transportation System Failures: An Investigative Study

B.S. Dhillon *(University of Ottawa, Canada)*

SESSIONS 11 & 12: Tutorial Session

Chair: Prof. Hoang Pham *(Rutgers University, USA)*

Reliability Burn-In and Environmental Stress Screening - Statistical Quantification

Dr. Feng-Bin Sun *(HGST, a Western Digital Company, USA)*

SESSION 13: Multi-State System Reliability Modeling & Its Applications

Chair: Prof. Yao Hsu *(Kainan University, Taiwan)*

A Study on Managerial Strategy of Greenhouse Factory

Jyh-Wen Ho *(Aletheia University, Taiwan)*

An Optimal Replacement Policy for Systems with Multi-State Aging Components

Chun-Ho Wang *(National Defense University, Taiwan)*
Chao-Hui Huang *(R.O.C. Naval Academy, Taiwan)*

On Reliability Evaluation of a Timed Stochastic-Flow Network

Shin-Guang Chen *(Tungnan University, Taiwan)*

Analysis of Fatigue Life of Electronic Package under Thermal Cycling Condition by Acceleration Model

Yao Hsu *(Kainan University, Taiwan)*
Wen-Fang Wu *(National Taiwan University, Taiwan)*
Yi-An Lu *(National Taiwan University, Taiwan)*

SESSION 14: Security Analytics & Applications

Chair: Prof. Taghi Khoshgoftaar *(Florida Atlantic Univ., USA)*

A Survey on Feature Selection for Intrusion Detection

Richard Zuech *(Florida Atlantic University, USA)*
Taghi M. Khoshgoftaar *(Florida Atlantic Univ., USA)*

Security Analysis of the Universal Physical Access Control System (UPACS)

Clyde Carryl *(Florida Atlantic University, USA)*
Bassem Alhalabi *(Florida Atlantic University, USA)*
Taghi Khoshgoftaar *(Florida Atlantic University, USA)*

A Comparison of Feature Selection Strategies for Identifying Malicious Network Sessions

Maryam M. Najafabadi *(Florida Atlantic Univ., USA)*
Taghi M. Khoshgoftaar *(Florida Atlantic Univ., USA)*
Amri Napolitano *(Florida Atlantic University, USA)*

Survey on Selected Features Used for Network Level Attack Detection

Chad Calvert *(Florida Atlantic University, USA)*
Taghi M. Khoshgoftaar *(Florida Atlantic Univ., USA)*
Maryam M. Najafabadi *(Florida Atlantic Univ., USA)*

SESSION 15: Mechanical Reliability Modeling & Prediction

Chair: Prof. Liyang Xie *(Northeastern University, China)*

CFD Analysis of Turbofan Engine Blade Temperature

Po Chung Tong *(The Hong Kong Polytechnic University, Hong Kong)*
Tsun Tat Wong *(The Hong Kong Polytechnic University, Hong Kong)*

Bending Fatigue Life Analysis of Heavy-load Spiral Bevel Gear Based on Computer Simulation Technology

Yan-zhong Wang *(Beihang University, China)*
Yang Liu *(Beihang University, China)*
Zu-zhi Zhang *(China North Vehicle Research Institute, China)*
Wen Tang *(Beihang University, China)*
Yan-yan Chen *(Beihang University, China)*
Wen-zhen Zhao *(Laoning Institute of Science and Technology, China)*
Tie Wang *(Taiyuan University of Technology, China)*
Xue-jun He *(Laoning Institute of Science and Technology, China)*

Effect of Rib Ratios on Turbulent Intensity of a Ribbed-Wall Channel

K.K. Yuen *(The Hong Kong Polytechnic University, Hong Kong)*
Eric T.T. Wong *(The Hong Kong Polytechnic University, Hong Kong)*

Development and Implementation of an Experimental Test Bench for Foam Characterization in Oil & Gas Applications

G. Giacchetta *(Università Politecnica della Marche, Italy)*
F. Corvaro *(Università Politecnica della Marche, Italy)*
G. Nardini *(Università Politecnica della Marche, Italy)*
M. Benucci *(Università Politecnica della Marche, Italy)*
D. Dall'Acqua *(Università Politecnica della Marche, Italy)*
B. Marchetti *(Università degli Studi eCampus, Italy)*

Reliability Estimation of Four-Hydraulic-Cylinder Propulsion Unit of Tunnel Boring Machine

Liyang Xie *(Northeastern University, China)*

SESSION 16: Software Quality and Reliability Assessment and Applications

Chair: Dr. Shinji Inoue *(Tottori University, Japan)*

Software Quality Assessment Modeling for Agile Development

Shigeru Yamada *(Tottori University, Japan)*
Ryosuke Kii *(Tottori University, Japan)*

Hazard Rate Model Considering Various Factors for Mobile Clouds

Mitsuho Matsumoto *(Tottori University, Japan)*
Yoshinobu Tamura *(Yamaguchi University, Japan)*
Shigeru Yamada *(Tottori University, Japan)*

All-Stage Truncated Modeling with Multiple Change-Points for Software Reliability Assessment

Saki Taniguchi *(Tottori University, Japan)*
Shinji Inoue *(Tottori University, Japan)*
Shigeru Yamada *(Tottori University, Japan)*

Discrete Software Reliability Growth Model Based on a Generalized Linear Modeling Approach

Yasutaka Iwasaki *(Tottori University, Japan)*
Shinji Inoue *(Tottori University, Japan)*
Shigeru Yamada *(Tottori University, Japan)*

SESSION 17: Automotive Reliability Modeling & Distribution Networks

Chair: Prof. Songlin Zheng *(University of Shanghai for Science and Technology, China)*

Secure Automotive Embedded System Using a Lightweight Block Cipher Against Malicious Trojan Attack

M. Yoshikawa *(Meijo University, Japan)*
Y. Hayashi *(Meijo University, Japan)*
Y. Nozaki *(Meijo University, Japan)*
K. Asahi *(Meijo University, Japan)*

Optimal Crew Site Visit to Improve the Reliability of Electricity Distribution Networks

Dzung T. Phan *(IBM T.J. Watson Research Center, USA)*
Yada Zhu *(IBM T.J. Watson Research Center, USA)*
Jayant Kalagnanam *(IBM T.J. Watson Research Center, USA)*

Assessment and Visualization of Reliability Relevant Product Characteristics for the Application of Bayes Analysis

V. Schweizer *(University of Stuttgart, Germany)*
F. Jakob *(University of Stuttgart, Germany)*
M. Bartholdt *(University of Stuttgart, Germany)*
B. Bertsche *(University of Stuttgart, Germany)*

An Optimized Target Spectrum Selection Method for the Automotive Durability Test

Jiawei Yu *(University of Shanghai for Science and Technology, China)*
Songlin Zheng *(University of Shanghai for Science and Technology, China)*
Jinzhi Feng *(University of Shanghai for Science and Technology, China)*
Lihui Zhao *(University of Shanghai for Science and Technology, China)*

SESSION 18: Maintenance Optimization & Its Applications

Chair: Prof. Syouji Nakamura *(Kinjo Gakuin Univ., Japan)*

Optimal Replacement Policy with Jobs and Loss Cost from Failure to Given Time Point

Satoshi Mizutani *(Aichi University of Technology, Japan)*
Toshio Nakagawa *(Aichi Institute of Technology, Japan)*

Research on Testability Design Analyzing Process of Products

Qi Song *(Beijing University of Aeronautics and Astronautics, China)*
Wenjin Zhang *(Beijing University of Aeronautics and Astronautics, China)*
Ping Sun *(Beijing University of Aeronautics and Astronautics, China)*

Stochastic Maintenance Model of Commercial Airframe with Damage Level and Crack Number

Kodo Ito *(Kinjo Gakuin University, Japan)*
Toshio Nakagawa *(Aichi Inst. of Technology, Japan)*

Optimal Garbage Collection Scheduling Times Policies for SSD

Syouji Nakamura *(Kinjo Gakuin University, Japan)*
Mingchih Chen *(Fu Jen Catholic University, Taiwan)*
Xufeng Zhao *(Aichi Institute of Technology, Japan)*
Toshio Nakagawa *(Aichi Inst. of Technology, Japan)*

SESSION 19: Reliability and Maintenance Modeling & Applications

Chair: Dr. Elsayed Elsayed *(Rutgers University, USA)*

A Dependent-Multivariate Data Analysis Method by Skewed-RBF Network Based on FGM Copula

Shuhei Ota *(Hosei University, Japan)*
Mitsuhiro Kimura *(Hosei University, Japan)*

Weibull Lifetime Model Considering Stress-Dependent Parameters

J. Juskowiak *(University of Stuttgart, Germany)*
M. Bartholdt *(University of Stuttgart, Germany)*
B. Bertsche *(University of Stuttgart, Germany)*

Improved Gamma Process for Degradation Analysis under Non-linear Condition

Zhaoyi Fan *(Soochow University, China)*
Hua Ju *(Soochow University, China)*
FengBin Sun *(HGST, a Western Digital Company, USA)*

Dependence and Maintenance of Series Repairable Systems

Isha Dewan *(Indian Statistical Institute, India)*
Yann Dijoux *(Université de Technologie de Troyes, France)*

A Bivariate Degradation Model for Sequence-Dependent Stress Testing

Jingbo Guo *(Rutgers University, USA)*
E. A. Elsayed *(Rutgers University, USA)*

SESSION 20: System Modeling & Simulation & Its Applications

Chair: Prof. Antonio C. Caputo *(Univ. of Roma Tre, Italy)*

A Fuzzy Parameter to Characterize the Uncertainty in the Plant Layout Design

Antonella Certa *(Univ. degli Studi di Palermo, Italy)*
Mario Enea *(Università degli Studi di Palermo, Italy)*
Giacomo Galante *(Università degli Studi di Palermo, Italy)*

A Method for Determining Safety Requirements

Shiyu Gong *(National University of Defense Technology, China)*
Bohua Li *(National University of Defense Technology, China)*
Pengcheng Luo *(National University of Defense Technology, China)*

Optimizing Turbine Blade Coating Thickness: A Simulation Approach

W. M. Wong *(The Hong Kong Polytechnic University, Hong Kong)*
T. T. Wong *(The Hong Kong Polytechnic University, Hong Kong)*

Assessment of General Equipment Support System Construction Ability Risk

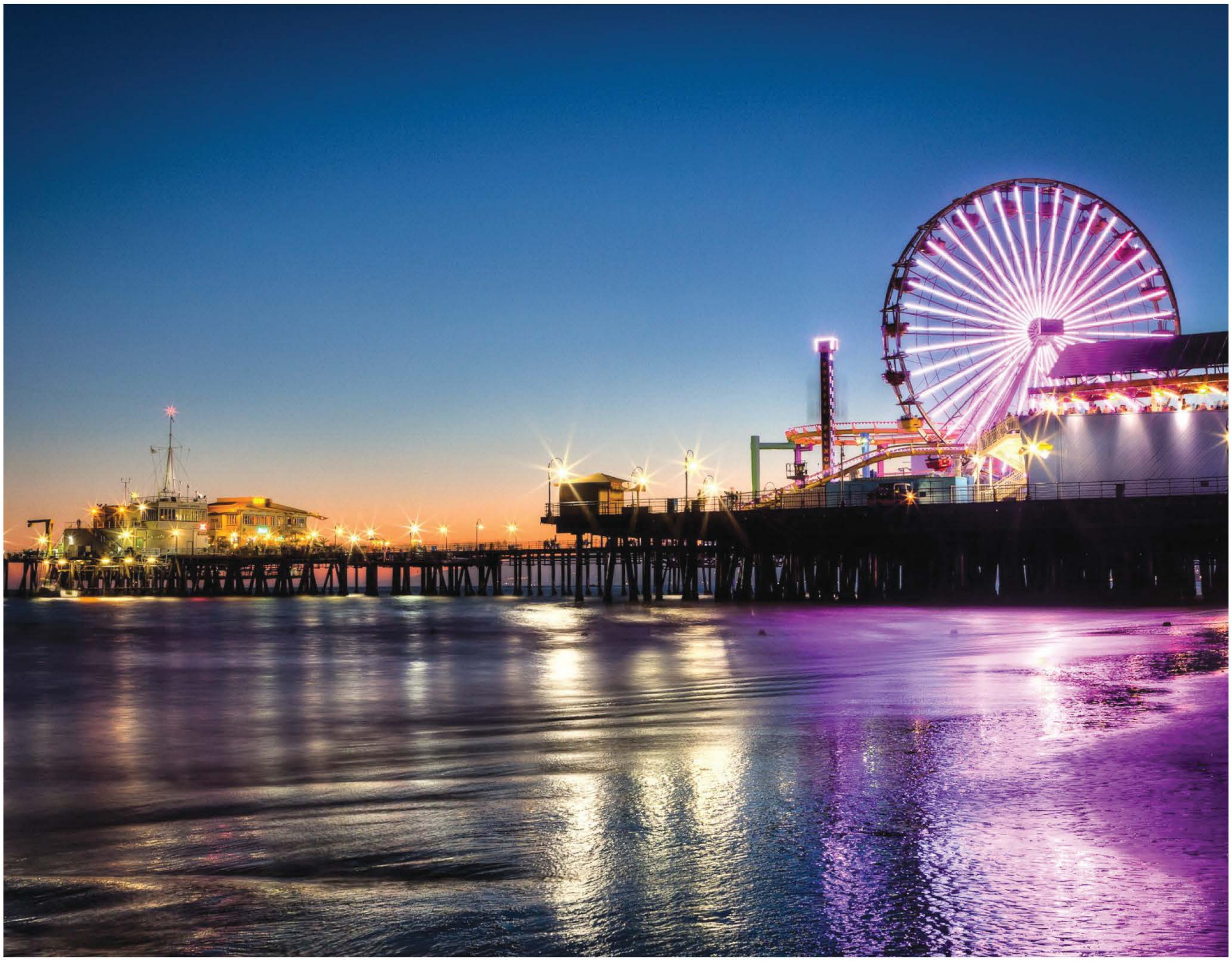
Chun-liang Chen *(Academy of Armored Force Engineering, China)*
Ou Qi *(Academy of Armored Force Engineering, China)*

Modeling Errors in Continuous Parts Supply Processes for Assembly Lines Feeding

Antonio C. Caputo *(University of Roma Tre, Italy)*
Pacifico M. Pelagagge *(University of L'Aquila, Italy)*
Paolo Salini *(University of L'Aquila, Italy)*

Thank you for contributing and participating in the 21st ISSAT RQD conference

We hope you enjoy the entire program



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Reliability and Quality in Design

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