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Thursday, August 2, 2007

8:30 am Registration \blacksquare 9:00 am - 9:15 am Opening Remarks

Hoang Pham (Rutgers University, U.S.A.) **Shigeru Yamada** (Tottori University, Japan)

SESSION 1

Thursday, August 2, 9:30 am - 11:00 am **Quality Modeling and Robust Design**

Chair: Gordon Savage

(University of Waterloo, Canada)

Design-In Quality and Reliability via Experimental Design T N Goh (National University of Singapore, Singapore)

Liqing Guo (National University of Singapore, Singapore)

A Study on Reducing Fraction Defective of Slit in Production Process for Rubber Parts

Shigeru Yamada (Tottori University, Japan)

Suguru Ogino (Tottori University, Japan)

The DGWMA Mean Chart

Shey-Huei Sheu (National Taiwan University of Science and Technology, Taiwan)

Yu-Tai Hsieh (National Taiwan University of Science and Technology, Taiwan)

Robust Design of Dynamic Systems using Metamodeling and Singular Value Decomposition Turuna Seecharan (University of Waterloo, Canada) Gordon Savage (University of Waterloo, Canada)

SESSION 2

Thursday, August 2, 9:30 am - 11:00 am

Applied Reliability and Statistical Modeling

Applied Reliability and Statistical Modeling Chair: B.S. Dhillon (University of Ottawa, Canada)

Statistical Inference About the Location Parameter of the Three-Parameter Lognormal Distribution

Zhenmin Chen (Florida International University, U.S.A.)
Mortality Modeling Program Developments

Mortality Modeling Program Developments Hoang Pham (Rutgers University, U.S.A.)

Stochastic Models for Mutual Physical Interactions in System Reliability Framework

Jerzy K. Filus (Oakton Community College, U.S.A.) Lidia Z. Filus (Northeastern Illinois University, U.S.A.)

Human Error in Railways: An Investigative Study *B.S. Dhillon (University of Ottawa, Canada)*

11:00 am - 11:15 am Break

SESSION 3

Thursday, August 2, 11:15 am - 12:30 pm **Software Reliability Policies and Process**

Improvements

Chair: **Shigeru Yamada** (Tottori University, Japan)

Optimal Software Release Problems Based on Customer Requirements

Takaji Fujiwara (Fujitsu Peripherals Limited, Japan) Shigeru Yamada (Tottori University, Japan) Hiromi Kusumoto (Fujitsu Limited, Japan)

A Software Reliability Growth Model Incorporating Imperfect Debugging, Generation of Errors and Time -Delay Fault Removal

Panlop Zeephongsekul (RMIT University, Australia) Winai Bodhisuwan (KMITNB, Thailand)

Markovian Software Service Availability Measurement with Imperfect Debugging

Yuki Mitoya (Tottori University, Japan) Koichi Tokuno (Tottori University, Japan) Shigeru Yamada (Tottori University, Japan)

SESSION 4

Thursday, August 2, 11:15 am - 12:30 pm

Quality Engineering Methods and Its Applications

Chair: **T N Goh** (National University of Singapore, Singapore)

Monitoring the Autocorrelated Process Mean and Variance using a GWMA Control Chart

Shey-Huei Sheu (National Taiwan University of Science and Technology, Taiwan)

Shin-Li Lu (National Taiwan University of Science and Technology, Taiwan)

Optimal Design of Accelerated Failure Test under Multiple Stresses with an Application to S-N Curve Estimation

Watalu Yamamoto (University of Electro-Communications, Japan) Kyosuke Kagawa (University of Electro-Communications, Japan) Kazuyuki Suzuki (University of Electro-

Kazuyuki Suzuki (University of Electro-Communications, Japan)

Normal Measurement Error Mu Seong Chang (Changwon National University, Korea) Sung Youb Choo (Changwon National University, Korea) Sang Boo Kim (Changwon National University, Korea) Jong Kun Kim (Changwon National University, Korea)

Estimation of Precision-To-Tolerance Ratio under Non-

SESSION 5

Thursday, August 2, 1:30 pm - 3:00 pm

Quality in Design

Chair: Kin Wai Michael Siu

(The Hong Kong Polytechnic University, Hong Kong)

Quality in Design: Creating Identity in Street Furniture Design Pak Hong Wan (The Hong Kong Polytechnic University, Hong Kong) Kin Wai Michael Siu (The Hong Kong Polytechnic University, Hong Kong)

Lorraine Justice (The Hong Kong Polytechnic University, Hong Kong)

Quality Improvement of the Mould Injection Equipments Using Robust Design Experiments (Taguchi Method)

Marius Baban (University of Oradea, Romania) Calin Florin Baban (University of Oradea, Romania)

Process Capability Analysis under a Weibull Shock Model S. Ahmad (RMIT University, Australia) M. Abdollahian (RMIT University, Australia) P. Zeephongsekul (RMIT University, Australia)

Quality in Design: Policy, Implementation, Management Kin Wai Michael Siu (The Hong Kong Polytechnic University, Hong Kong)

SESSION 6

Thursday, August 2, 1:30 pm - 3:00 pm

Network Reliability and Optimization

Chair: **Guangbin Yang** (Ford Motor Company, U.S.A.)

Product Reliability Prediction with Failure Information Fusion Rong Pan (Arizona State University, U.S.A.)
Juan Batres (Mitsubishi Power Systems Americas, U.S.A.)

Reliability in Random Environment: Systemability and Its Application

F. Sgarbossa (University of Padova, Italy)

D. Battini (University of Padova, Italy)

M. Faccio (University of Padova, Italy)

A. Persona (University of Padova, Italy)

Validation of Method of Moments for Uncertainty Propagation in Reliability Estimation Mitchell Rausch (Wichita State University, U.S.A.) Haitao Liao (Wichita State University, U.S.A.)

On Methods for Cost Optimization of Condition Based Maintenance Systems

Guido Guizzi (University of Naples "Federico II", Italy) Liberatina Carmela Santillo (University of Naples "Federico II", Italy)

Pasquale Zoppoli (University of Naples "Federico II", Italy)

3:00 pm - 3:15 pm Break

SESSION 7

Thursday, August 2, 3:15 pm - 5:00 pm

Quality Planning and Measurements

Chair: **Ruey Huei Yeh** (National Taiwan University of Science and Technology, Taiwan)

A Battery Cell Performance Grading Approach Sheng-Chai Chi (Huafan University, Taiwan) Chih Chieh Yang (Huafan University, Taiwan)

A Performance Analysis Model for Order-Picking System Jason Chao-Hsien Pan (National Taiwan University of Science and Technology, Taiwan) Po-Hsun Shih (Vanung University, Taiwan) Ming-Hung Wu (National Taiwan University of Science and Technology, Taiwan)

Various Multi-Dimensional Memory Parity Check Models Play Roles in the Analysis and Design of a Structural Reliability-Concerned System Hsiang-Chow Kuo (Vanung University, Taiwan) Tsun-Ming Chen (Vanung University, Taiwan) M.Paul Gough (University of Sussex, England) Yu-Chi Juan (Furr-Kuan University, Taiwan) The Periodic Preventive Maintenance Policy with Age Reduction for a Weibull Life-Time System under Reliability Limit

Chun-Yuan Cheng (Chaoyang University of Technology, Taiwan)

Renkuan Guo (University of Cape Town, South Africa) Mei-Ling Liu (Chaoyang University of Technology, Taiwan)

Optimal Preventive Maintenance Policy for Leased Equipment using Failure Rate Reduction Ruey Huei Yeh (National Taiwan University of Science

Kow-Chin Kao (National Taiwan University of Science and Technology, Taiwan)

Wen Liang Chang (National Taiwan University of Science and Technology, Taiwan)

SESSION 8

and Technology, Taiwan)

Thursday, August 2, 3:15 pm - 5:00 pm **Software Reliability Modeling**

Chair: Greg Twaites (General Dynamics, U.S.A.)

A Method of Dual Reliability Assesment based on Stochastic Differential Equation for an Open Source Software Yoshinobu Tamura (Hiroshima Institute of Technology, Japan) Shigeru Yamada (Tottori University, Japan)

Modify Software Reliability Growth Model for Evolving System *Wei Zhang (Sun Microsystems, U.S.A.) Daniel B. Rose (Sun Microsystems, U.S.A.)*

A Two-Dimensional Weibull Process Model for Software Reliability Assessment

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

Discrete Software Reliability Modeling based on Fault-Detection Times Distribution with Testing-Coverage Kazuya Tanisaki (Tottori University, Japan) Shinji Inoue (Tottori University, Japan) Shigeru Yamada (Tottori University, Japan)

Mitigating the Effects of Accelerated Schedules on the Development of System Test Plans Greg Twaites (General Dynamics, U.S.A.) James Collofello (Arizona State University, U.S.A.) Gary Grisbeck (General Dynamics, U.S.A.)

5:30 pm - 7:30 pm Welcome Reception

Friday, August 3, 2007

8:15 am Registration

SESSION 9

Friday, August 3, 8:30 am - 10:00 am **Software Quality and Reliability**Chair: **Taghi M. Khoshgoftaar** (Florida Atlantic University, U.S.A.)

Ordinal Classification for Intrusion Detection in Wireless Networks: An Empirical Evaluation Taghi M. Khoshgoftaar (Florida Atlantic University, U.S.A.) Naeem Seliya (University of Michigan — Dearborn, U.S.A.)

Software Reliability Modeling using Skewed Measurement Data

Jason Van Hulse (Florida Atlantic University, U.S.A.) Taghi M. Khoshgoftaar (Florida Atlantic University, U.S.A.) Amri Napolitano (Florida Atlantic University, U.S.A.)

A Rule-Based Software Quality Classification Model Taghi M. Khoshgoftaar (Florida Atlantic University, U.S.A.) Lofton A. Bullard (Florida Atlantic University, U.S.A.) Kehan Gao (Eastern Connecticut State University, U.S.A.)

Software Quality Classification with Imbalanced and Noisy Data

Andres Folleco (Florida Atlantic University, U.S.A.) Taghi M. Khoshgoftaar (Florida Atlantic University, U.S.A.) Jason Van Hulse (Florida Atlantic University, U.S.A.)

SESSION 10

Friday, August 3, 8:30 am - 10:00 am

System Reliability Modeling

Chair: Ming J. Zuo (University of Alberta, Canada)

Analysis of a Repairable 2-out-of-3 System with Failure and Repair Times Arbitrarily Distributed Gherda Mebrouk (University of Guelma, Algeria) Boushaba Mahmoud (University of Constantine Algeri, Algeria)

A Method for Exact Reliability of Consecutive 2-out-of-(r,r)-from-(n,n):F system

Yoichi Higashiyama (Ehime University, Japan) Ventsi Rumchev (Curtin University of Technology, Australia) Reliability Modeling and Analysis of 2-out-of-3 Redundant System Subject to Conditional Arrival Time of Server

S. Chander Malik (M.D. University, India) R.K. Bhardwaj (M.D. University, India)

An Efficient Method for Reliability Evaluation of Multi-State Networks Given All Minimal Path Vectors Zhigang Tian (University of Alberta, Canada) Ming J. Zuo (University of Alberta, Canada) Hong-Zhong Huang (Univ. of Electronic Science & Tech. of China, China)

10:00 am - 10:15 am Break

SESSION 11

Friday, August 3, 10:15 am - 11:45 am

Maintenance Modeling

Chair: **Toshio Nakagawa** (Aichi Institute of

Technology, Japan)

Optimal Operation Censoring Policy for a System with Damage Repair

Kodo Ito (Kinjo Gakuin University, Japan)

Toshio Nakagawa (Aichi Institute of Technology, Japan)

Inspection Thresholds for Imperfect Inspection Based on a Prior State

Takashi Satow (Tottori University, Japan)

Hajime Kawai (Tottori University, Japan)

Optimal Random Inspection Policy with Two Types of

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

Random Checkpoint Models for a Double Modular System Kenichiro Naruse (Nagoya Sangyo University, Japan) Toshio Nakagawa (Aichi Institute of Technology, Japan) Sayori Maeji (Kinjo Gakuin University, Japan)

SESSION 12

Friday, August 3, 10:15 am - 11:45 am

Quality Planning and Measurements

Chair: Yi-Kuei Lin (Vanung University, Taiwan)

Differences in Perceptions of Classroom Management between Licensed and Non-Licensed Private

Kindergarten Teachers in Taiwan Meng-Chin Chen (Diwan College of Management, Taiwan)

The Study on the Relationship between Teacher Efficacy and Teaching Effectiveness of PE Teachers in

Elementary School Hsing-hao Tai (Ching Yun University, Taiwan) Che-Jen Chuang (Vanung University, Taiwan)

Understanding Student Participation Quality Using Physical Education in Taiwan as an Example Chou-Kang Chiu (Ching Kuo Institute of Management

and Health, Taiwan) Luan-Ying Wei (Ching Kuo Institute of Management

and Health, Taiwan) Chieh-Peng Lin (Vanung University, Taiwan)

Varied Capacity Weights in a Two-Commodity Multistate Flow Network

Yi-Kuei Lin (Vanung University, Taiwan) Chin-Yu Yang (Vanung University, Taiwan)

12:00 noon - 1:00 pm Lunch

SESSION 13

Friday, August 3, 1:15 pm - 2:45 pm

Process Control and Management Chair: P. Zeephongsekul (RMIT University, Australia)

Modified Economic Manufacturing Quantity Model Considering Product under the Serial Production System Chung-Ho Chen (Southern Taiwan University of Technology, Taiwan)

The Detection of Electrocardiogram R-Waves based on the Concept of Slope and Continuous Runs Bernard C. Jiang (Yuan Ze University, Taiwan) Wen-Hung Yang (Yuan Ze University, Taiwan) Jian-De Chen (Yuan Ze University, Taiwan)

Quantitative Quality Evaluation of Software Projects based on Process Metrics *Toshiki Aoki (Tottori University, Japan)*

Shigeru Yamada (Tottori University, Japan)

Part Localization Algorithm Based on Constrained Alignment of Surface Patches

M. Ben Salah (Université du Quebec, Canada) Jean-François Chatelain (Université du Quebec, Canada)

SESSION 14

Friday, August 3, 1:15 pm - 2:45 pm

Engineering Design Optimization

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

Method of Life Prediction of Engine Cylinder Head Ming Yan (Northeastern University, China) Zhili Sun (Northeastern University, China) Qiang Yang (Northeastern University, China) Canhui Wu (Northeastern University, China)

Kinematics Reliability of Improved Delta Parallel Mechanism

Yang Qiang (Northeastern University, China) Zhili Sun (Northeastern University, China) Yan Ming (Northeastern University, China) Nannan Zhong (Northeastern University, China)

Maintenance Optimization for Degrading Systems under Installation Constraints

Zhaojun Li (Wichita State University, U.S.A.) Murad Hamada (Cessna Aircraft Company, U.S.A.) Haitao Liao (Wichita State University, U.S.A.)

Analysis on the Fatigue Breakage of Roller in Continuous Casting Machine Xinjun Zhao (Northeastern University, China)

Xinjun Zhao (Northeastern University, China) Kejia Li (Beijing University of Aeronautics and Astronautics, China)

2:45 pm - 3:00 pm Break

SESSION 15

Friday, August 3, 3:00 pm - 4:45 pm

Mechanical Reliability and Its Applications Chair: Liyang Xie (Northeastern University, China)

Reliability Design Optimum by Considering Strength Strengthening

Songlin Zheng (University of Shanghai for Science and

Technology, China) Xi Lu (University of Shanghai for Science and

Technology, China)

Chaomei Chu (University of Shanghai for Science and Technology, China)

Spring and Metal-Screw-Bar's Fatigue Test and Its Application

Yongyan Wang (Qingdao University of Science and Technology, China)

Chunlei Zeng (Qingdao University of Science and Technology, China)

Xin He (Qingdao University of Science and Technology, China)

Jianguang Li (Qingdao University of Science and Technology, China)

Analysis of Wear-Resisting Reliability of Ni-Based Super-Alloy onto CrMo Cast Iron by Laser Cladding Yunfeng Zhang (Northeastern University, China) Yutao Yan (Northeastern University, China) Zhili Sun (Northeastern University, China)

Failure Rate: A Perspective from Load-Strength Interference Relationship Liyang Xie (Northeastern University, China) Zheng Wang (Northeastern University, China)

Jinchun Song (Northeastern University, China) Hong Wang (Northeastern University, China)

SESSION 16

Friday, August 3, 3:00 pm - 4:45 pm

Data Quality, Techniques and Applications

Chair: **Mei-Tzu Wang** (Chinese Culture University, Taiwan)

To Find Chinese Keywords for the Show Activities Pei-Ling Wu (Chienkuo Technology University, Taiwan) Juei-Yang Su (National Chung Shan University, Taiwan)

Timeliness of Earning Announcements to detect Accounting Quality

Shiou-Chih Wang (National Taipei University, Taiwan) Jui-Hung Su (Fu Jen Catholic University, Taiwan)

Garbage Data Re-Circulating Model and Its Application Xian-Yu Lee (Chinese Culture University, Taiwan)
Jaw-Sin Su (Chinese Culture University, Taiwan)

Semantic Query Optimization on Object-Oriented Database

Mei-Tzu Wang (Chinese Culture University, Taiwan)

Saturday, August 4, 2007

8:15 am Registration

SESSION 17

Saturday, August 4, 8:30 am - 10:00 am

Quality Measurements and Predictions – Case Studies

Chair: Hsueh-yu Cheng

(Shu Zen College of Medicine & Management, Taiwan)

The Revelation of "The Weaved Rope Model"— A case of 7th World Taekwondo Festival & Taiwan Changhua Open July 4-8, 2005

Ching-San Chiang (Chienkuo Technlogy University, Taiwan)

Multiple Intelligences, Preferred Learning Styles and Language Learning -- A Case Study in Taiwan Yen-ju Hou (Shu Zen College of Medicine and Management, Taiwan)

Fen-ming Lee (Far East University of Technology, Taiwan) Yi-an Hou (Far East University of Technology, Taiwan) Wei-yu Chung (Far East University of Technology, Taiwan)

Customer Satisfaction for the Relationship Marketing Model of Restaurant - A case of Tao Ban Restaurant in Taiwan

Yi-Ling Hsiao (Chinese Culture University, Taiwan) Hurdy Su (Sususing Co., Ltd., R.S.A.)

Measuring Education: Combining Quantity and Quality of Foreign Language Teaching and Study Abroad Program - A Case Study of the Armed Forces Academies in Taiwan

Hsueh-yu Cheng (Shu Zen College of Medicine & Management, Taiwan)

Yen-ju Hou (Shu Zen College of Medicine & Management, Taiwan)

Fen-ming Lee (Far East University of Technology, Taiwan) Yi-an Hou (Far East University of Technology, Taiwan) Wei-yu Chung (Far East University of Technology, Taiwan)

SESSION 18

Saturday, August 4, 8:30 am - 10:00 am

Distributed Computing and Fault Tree Analysis Chair: **Toshio Nakagawa**

(Aichi Institute of Technology, Japan)

Minimal Cut Sets/Sequences of a Fault Tree with Priority and Gates

Tetsushi Yuge (National Defense Academy, Japan) Shigeru Yanagi (National Defense Academy, Japan)

Retransmission Control Scheme of a Network System using Duplicated ACK Packets

Mitsuhiro Imaizumi (Aichi Gakusen University, Japan) Mitsutaka Kimura (Gifu City Women's College, Japan) Kazumi Yasui (Aichi Institute of Technology, Japan)

Reliability Consideration of a Remote Data Replication for Disaster Recovery

Mitsutaka Kimura (Ğifu City Women's College, Japan) Mitsuhiro İmaizumi (Aichi Gakusen University, Japan) Kazumi Yasui (Aichi Institute of Technology, Japan)

Optimal Times of Image Copy for a Multi-File Database System

Syouji Nakamura (Kinjo Gakuin University, Japan) Toshio Nakagawa (Aichi Institute of Technology, Japan) Keiko Nakayama (Chukyo University, Japan)

10:00 am - 10:15 am Break

SESSION 19

Saturday, August 4, 10:15 am - 12:15 pm

System Modeling and Its Applications

Chair: Suraj M. Alexander (University of Louisville, U.S.A.)

Consideration of Burn-In Acceleration and Effective Screening Procedure in Latest System LSI Nobuyuki Wakai (Toshiba Corporation Semiconductor Company, Japan)

Yuji Kobira (Toshiba Corporation Semiconductor Company, Japan)

Hidemitsu Egawa (Toshiba Corporation Semiconductor Company, Japan)

Statistical Analysis for Quality Improvement of Step at Bonding Line in the Design of Resin Molding Shigeru Yamada (Tottori University, Japan) Yasuhiko Ikeuchi (Tottori University, Japan)

SPC Techniques for Non Gaussian Processes Florina Babus (ISTIA – LASQUO University of Angers, France)

Teodor Tiplica (ISTIA – LASQUO University of Angers, France)

Abdessamad Kobi (ISTIA - LASQUO University of Angers, France)

Ioan Bacivarov (University Polytechnic of Bucharest, Romania)

Explosive Detection: Systems Modeling and Architecture Waleed H. El-Said (University of Louisville, U.S.A.) Suraj M. Alexander (University of Louisville, U.S.A.)

Blank Table Template Presentation Framework Waleed H. El-Said (University of Louisville, U.S.A.)

SESSION 20

Saturday, August 4, 10:15 am - 12:15 pm Systems Complexity & Modeling and Simulation Chair: **Zhenmin Chen** (Florida International University, U.S.A.)

The Search based on Reliability Test Methods of Software Xiaoning Huang (University of Science and Technology of China, China)

Facility Layout Problem: Formulations and Solution Methodologies

Mosè Gallo (University of Naples "Federico II", Italy) Luigi Guerra (University of Naples "Federico II", Italy) Liberatina C. Santillo (University of Naples "Federico II", Italy)

Software Reliability Assessment and Version-Upgrade Problem for Open Source Software Yasushi Matsushima (Tottori University, Japan)

Yoshinobu Tamura (Hiroshima Institute of Technology, Japan)

Shigeru Yamada (Tottori University, Japan)

Effect Analysis of Process Variables on Critical Component Failures in a Refinery Plant

M. Bevilacqua (Università di Bologna, Italy)

F. E. Ciarapica (Università Politecnica della Marche, Italy)

G. Giacchetta (Università Politecnica della Marche, Italy)

Research on Aircraft Zonal Safety Analysis System Tian-xiang Yu (Northwestern Polytechnical University, China) Weimin Cui (Northwestern Polytechnical University, China) Bifeng Song (Northwestern Polytechnical University, China)

Reliability Analysis of a Multi-Sensor Warning System K Sadananda Upadhya (Defence Avionics Research Establishment, India)

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Establishment, India)

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Date:

12:15 pm Adjourn!

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