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BOSTON, MASSACHUSETTS, U.S.A. ★ JULY 26 – 28, 2012

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Thursday, July 26, 2012

8:00 am Registration - Continental Breakfast
9:00 am - 9:15 am Welcome - Opening Remarks
Awards Presentation
9:15 am - 9:50 am Keynote Speech
Customer-Perceived Software Reliability: Overview
Kazu Okumoto, *(Alcatel-Lucent)*

10:00 am - 12:00 noon

SESSION 1

Reliability & Analysis of Ocean Systems

Chair: Taghi M. Khoshgoftaar *(Florida Atlantic University, USA)*

A Novel Baseline-Differencing Approach for Creating Generalizable Reliability Models of Ocean Turbine Behavior
Randall Wald *(Florida Atlantic University, USA)*
Taghi M. Khoshgoftaar *(Florida Atlantic University, USA)*
Bassem Alhalabi *(Florida Atlantic University, USA)*

Reliability Prediction System using Bayesian Network
Kei Imazawa *(Hitachi, Ltd., Japan)*
Y. Katsumura *(Hitachi, Ltd., Japan)*
K. Kosugi *(Hitachi Global Storage Technologies Japan, Ltd., Japan)*
M. Douwaki *(Hitachi Global Storage Technologies Japan, Ltd., Japan)*

Approaches to Sensitivity Analysis for System Reliability Study of Smart Structures for Active Vibration Reduction
Ying Li *(Technische Universität Darmstadt, Germany)*
Thomas Pfeiffer *(Reliability LBF, Germany)*
Jürgen Nuffer *(Reliability LBF, Germany)*
Joachim Bös *(Technische Universität Darmstadt, Germany)*
Holger Hanselka *(Reliability LBF, Germany)*

Combining Line Sampling and Saddlepoint Approximation for Reliability Sensitivity Analysis
S.E. Song *(Northwestern Polytechnical University, China)*
Z.Z. Lu *(Northwestern Polytechnical University, China)*
L.Y. Li *(Northwestern Polytechnical University, China)*

Fusion of Wavelet Transform Features for Reliable Fault Detection within an Ocean Turbine MCM System
Janell Duhaney *(Florida Atlantic University, USA)*
Taghi M. Khoshgoftaar *(Florida Atlantic University, USA)*
Randall Wald *(Florida Atlantic University, USA)*
Pierre P. Beaujean *(Florida Atlantic University, USA)*

SESSION 2

Human Error Analysis & Reliability Prediction

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

The Underlying Driving Forces of Continuous Probability Density and Distribution Functions
Zhigang Wei *(Tenneco, Inc., USA)*
D. Gary Harlow *(Lehigh University, USA)*
Burt Lin *(Tenneco, Inc., USA)*
Fulun Yang *(Tenneco, Inc., USA)*

New Method for Weighted–k–out–of–n System using SDP
Yoichi Higashiyama *(Ehime University, Japan)*
Ventsi Rumchev *(Curtin University of Technology, Australia)*

Systemability With Loglog Distributions
Hoang Pham *(Rutgers University, USA)*

A Taxonomy System to Identify Human Error Causes for Software Defects
Fuqun Huang *(Beihang University, China)*
Bin Liu *(Beihang University, China)*
Bing Huang *(Beihang University, China)*

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

1:30 pm - 3:00 pm

SESSION 3

System Reliability Modeling

Chair: Anatoly Lisnianski *(The Israel Electric Corporation, Ltd, Israel)*

Reliability Evaluation for a Multi-Line Production System with Reworking Actions
Ping-Chen Chang *(National Taiwan University of Science & Technology, Taiwan)*
Yi-Kuei Lin *(National Taiwan University of Science & Technology, Taiwan)*

Combinatorial Reliability Analysis of Warm-Standby Systems with Imperfect Fault Coverage
O. Tannous *(University of Massachusetts, USA)*
L. Xing *(University of Massachusetts, USA)*
R. Peng *(University of Science & Technology, China)*
M. Xie *(City University of Hong Kong, Hong Kong)*

Total Life Approach Based Creep-Fatigue-Oxidation Modeling
Zhigang Wei *(Tenneco, Inc., USA)*
Fulun Yang *(Tenneco, Inc., USA)*
Burt Lin *(Tenneco, Inc., USA)*
Limin Luo *(Tenneco, Inc., USA)*
Dmitri Konson *(Tenneco, Inc., USA)*

Reliability Assessment for Aging Multi-state System under Stochastic Demand by Using L_Z-transform
A. Lisnianski *(The Israel Electric Corporation, Ltd, Israel)*

SESSION 4

Software Reliability

Chair: Kehan Gao *(Eastern Connecticut State University, USA)*

A Comparative Study of Sampled Feature Ranker Ensembles for Software Quality Classification
Taghi M. Khoshgoftaar *(Florida Atlantic University, USA)*
Kehan Gao *(Eastern Connecticut State University, USA)*
Lofton A. Bullard *(Florida Atlantic University, USA)*

On Ranking Software Reliability Growth Models by Subjective Data Analysis
G. Albeanu *(Spiru Haret University, Romania)*
G. I. Duda *(Spiru Haret University, Romania)*
Fl. Popentiu-Vladicescu *(University of Oradea, Romania)*

A Method of Complex Software System Reliability Allocation Based on ANP
Gang Wei *(Academy of Armored Forces Engineering, China)*
Li Xu *(North Huguang photoelectricity Ltd, China)*
Huan-kun Wang *(Academy of Armored Forces Engineering, China)*

Impact of Data Sampling on Feature Selection Techniques for Software Defect Prediction
Kehan Gao *(Eastern Connecticut State University, USA)*
Taghi M. Khoshgoftaar *(Florida Atlantic University, USA)*
Amri Napolitano Amri Napolitano *(Florida Atlantic University, USA)*

3:00 pm - 3:15 pm   Coffee Break

3:15 pm - 5:15 pm

SESSION 5

Computer System Reliability Modeling and Maintenance Policies

Chair: Koichi Tokuno *(Tottori University, Japan)*

Optimal Times of Deadlock Detection Schedule
Syouji Nakamura *(Kinjo Gakuin University, Japan)*
Xufeng Zhao *(Aichi Institute of Technology, Japan)*
Toshio Nakagawa *(Aichi Institute of Technology, Japan)*

A Method of Reliability Assessment based on Stochastic Differential Equation Model for a Cloud Open Source Software
Yoshinobu Tamura *(Yamaguchi University, Japan)*
Shigeru Yamada *(Tottori University, Japan)*

A Summary of Newly Proposed Age Replacement Policies
Xufeng Zhao *(Aichi Institute of Technology, Japan)*
Toshio Nakagawa *(Aichi Institute of Technology, Japan)*

Bayesian Network Modeling for Dynamic Fault Tree
Tetsushi Yuge *(National Defense Academy, Japan)*
Shigeru Yanagi *(National Defense Academy, Japan)*

Software Performability Evaluation based on Markovian Reliability Model with Systemability
Toshinori Fukuda *(Tottori University, Japan)*
Koichi Tokuno *(Tottori University, Japan)*
Shigeru Yamada *(Tottori University, Japan)*

SESSION 6

Maintenance, Degradation Modeling & Prediction
Chair: Guangbin Yang *(Chrysler Group LLC)*

A Cuscore Statistic for Monitoring Degradation Paths
Michelle Mancenido *(Arizona State University, USA)*
Rong Pan *(Arizona State University, USA)*

Condition Based Maintenance of Wind Power Generation Systems Considering Different Turbine Types and Lead Times
Fangfang Ding *(Concordia University, Canada)*
Zhigang Tian *(Concordia University, Canada)*
Abeer Amayri *(Concordia University, Canada)*

Use of Critical Index as a Method of Management, Planning and Control of the Maintenance in an Oil Refining Plant
M. Bevilacqua *(Università Politecnica delle Marche, Italy)*
F. E. Ciarapica *(Free University of Bolzano-Bozen, Italy)*
G. Mazzuto *(Università Politecnica delle Marche, Italy)*
L. Postacchini *(Free University of Bolzano-Bozen, Italy)*

Dynamic Modeling of Two-stage Gearbox for Condition Monitoring
Yonglin Ren *(Concordia University, Canada)*
Zhigang (Will) Tian *(Concordia University, Canada)*

Optimal Design of Degradation Tests for Reliability Demonstration
Guangbin Yang *(Ford Motor Company, USA)*

5:30 pm - 7:00 pm Welcome Reception

Friday, July 27, 2012
8:00 am Registration - Continental Breakfast

8:30 am - 10:00 am

SESSION 7
Reliability Analysis & Its Applications
Chair: Gary Harlow *(Lehigh University, USA)*

Influence of the Human Body on the Characteristics of A Pedestrian Bridge
Shiqiao Gao *(Beijing Institute of Technology, China)*
Dong Wang *(Beijing Institute of Technology, China)*
Lei Jin *(Beijing Institute of Technology, China)*

Investigating the Factors Affecting the Development of a National Accreditation Body in North Africa
Tarek Elsmuai *(Nottingham Trent University, United Kingdom)*
Chris McCollin *(Nottingham Trent University, United Kingdom)*

A Method of Arc Welding Robot Pose Precision Reliability Analysis Based on Six Parameters
Jia Li *(Northeastern University, China)*
Yunnan Teng *(Northeastern University, China)*

Lei Xu *(Northeastern University, China)*
Shuai Chu *(Northeastern University, China)*
Peng Zhao *(Northeastern University, China)*
Mei Su *(Northeastern University, China)*
Xuehong He *(Northeastern University, China)*

Teardown Data: Particle Distributions
D. Gary Harlow *(Lehigh University, USA)*

SESSION 8
Quality Design & Optimization
Chair: N.V.R. Naidu *(M.S.Ramaiah Institute of Technology, India)*

A Single CUSUM Chart for Monitoring Time Interval and Magnitude of Critical Events
Liang Qu *(Nanyang Technological University, Singapore)*

Overall Design and Quality Improvement of Equipment Based on Virtual Prototype
Xue-zheng Zhu *(Chemical Defence Institute, China)*
Li Xu *(North Huguang photoelectricity Ltd, China)*
Qing-jun Meng *(Academy of Armored Forces Engineering, China)*

Estimating Capability Index in Multivariate Processes
Using Bootstrap Sequential Sampling Procedures
L. Sandamali Dharmasena *(Deakin University, Australia)*
P. Zeephongsekul *(RMIT University, Australia)*
M. Abdollahian *(RMIT University, Australia)*

Development of Mathematical Model to Determine
the Optimal Tolerance for Quality Improvement through
Taguchi Loss Function
N.V.R. Naidu *(M.S.Ramaiah Institute of Technology, India)*

10:00 am - 10:15 am   Coffee Break

10:15 am - 11:45 am

SESSION 9

Reliability of Complex Systems
Chair: Liudong Xing *(University of Massachusetts - Dartmouth, USA)*

System Reliability Optimization Considering Uncertain
Future Operating Conditions and Usage Stresses
Nida Chatwattanasiri *(Rutgers University, USA)*
David W. Coit *(Rutgers University, USA)*
Mark Rodgers *(Rutgers University, USA)*
Sanling Song *(Rutgers University, USA)*

Reliability of k-out-of-n Cold Standby Systems with
Rayleigh Distributions
Rahamat Mohammad *(Victoria University, Australia)*
Suprasad V. Amari *(Parametric Technology Corporation, USA)*
Aktar Kalam *(Victoria University, Australia)*

Integrated Importance Analysis with Multi-state
Multi-valued Decision Diagrams
Shumin Li *(Northwestern Polytechnical University, China)*
Shudong Sun *(Northwestern Polytechnical University, China)*
Zhiqiang Cai *(Northwestern Polytechnical University, China)*
Shubin Si *(Northwestern Polytechnical University, China)*

Performance and Reliability Analysis of a SOA
Application: An Integrated Approach
Rehab A. El Kharboutly *(Eastern Connecticut State Univ., USA)*
Swapna S. Gokhale *(Univ. of Connecticut, USA)*

SESSION 10

FMEA and Accelerated Reliability Design
Chair: Shengbin (Burt) Lin *(Tenneco, Inc., USA)*

Failure Modes Analysis of Fatigue S-N Test Data with
Small Sample Size
Zhigang Wei *(Tenneco, Inc., USA)*
Fulun Yang *(Tenneco, Inc., USA)*
Burt Lin *(Tenneco, Inc., USA)*
D. Gary Harlow *(Lehigh University, USA)*

Reducing Test Specimen Size for Reliability
Determination by Combining Lifetime Calculation and
Prior Information, as Exemplified by Hydraulic Pumps
Achim Romer *(Bosch Rexroth, Germany)*
Bernd Bertsche *(Universitaet Stuttgart, Germany)*
Josef Kurfess *(University of Applied Sciences Ulm, Germany)*

Gear Remaining Useful Life Prediction Using
Generalized Polynomial Chaos Collocation Method
Fuqiong Zhao *(Concordia University, Canada)*
Zhigang Tian *(Concordia University, Canada)*

Accelerated Durability Testing and Data Analysis for
Products with Multiple Failure Modes
Zhigang Wei *(Tenneco, Inc., USA)*
Burt Lin *(Tenneco, Inc., USA)*
Limin Luo *(Tenneco, Inc., USA)*
Fulun Yang *(Tenneco, Inc., USA)*
Dmitri Konson *(Tenneco, Inc., USA)*

12:00 pm – 1:00 pm   Conference Luncheon

1:30 pm - 3:00 pm

SESSION 11

Network Reliability
Chair: Xuemei Zhang *(AT&T Labs, USA)*

Manycast and Anycast-Based Infrastructure
Communication Reliability for Wireless Sensor Networks
C. Wang *(University of Massachusetts, Dartmouth, USA)*
L. Xing *(University of Massachusetts, Dartmouth, USA)*
V. M. Vokkarane *(University of Massachusetts, Dartmouth, USA)*
Y. Sun *(University of Rhode Island, USA)*

Rigidity Reliability Analysis of High-speed Motorized
Spindle based on RSM
Xuehong He *(Northeastern University, China)*
Yanshou Jiang *(Northeastern University, China)*
Mengbing Zhu *(Northeastern University, China)*
Jia Li *(Northeast University, China)*

K-Coverage Reliability Evaluation for Wireless
Sensor Networks
A. E. Zonouz *(University of Massachusetts, Dartmouth, USA)*
L. Xing *(University of Massachusetts, Dartmouth, USA)*
V. M. Vokkarane *(University of Massachusetts, Dartmouth, USA)*
Y. Sun *(University of Rhode Island, USA)*

System MTBF and Its Applications to IP Routers
Yaakov Kogan *(AT&T Operations, USA)*
Xuemei Zhang *(AT&T Labs, USA)*

SESSION 12

Statistical Methods in Reliability and Quality in Design
Chair: Panlop Zeephongsekul *(RMIT University, Australia)*

Critical Success Factors of Six Sigma Projects
in Educational Services
E. Mousavi *(Islamic Azad University, Iran)*
R. Noorossana *(Iran University of Science and Technology, Iran)*

Evaluation of MTBF and MTTR Trends for a Selected
Equipment in an Oil Refinery
M. Bevilacqua *(Università Politecnica della Marche, Italy)*
F. E. Ciarapica *(Libera Università di Bolzano, Italy)*
G. Giacchetta *(Università Politecnica della Marche, Italy)*
B. Marchetti *(Università degli Studi eCampus, Italy)*

Proportional Hazard Model for Time-Dependent
Covariates with Repeated Events
Alexandre Mendes *(Northeastern University, USA)*
Nasser Fard *(Northeastern University, USA)*

On Estimation of Hazard Rate and Reversed Hazard
Rate based on Transformations
Chathuri Lakshika Jayasinghe *(RMIT University, Australia)*
Panlop Zeephongsekul *(RMIT University, Australia)*

3:00 pm – 3:15 pm Coffee Break

3:15 pm - 5:15 pm

SESSION 13

Software Quality and Reliability Measurement

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

Stochastic Differential Equation Models Considering Jump Diffusion Process for an Open Source Software
Hirona Miyahara *(Tottori University, Japan)*
Yoshinobu Tamura *(Yamaguchi University, Japan)*
Shigeru Yamada *(Tottori University, Japan)*

Bivariate Software Reliability Modeling with Uncertainty of Testing-Environment Change
Shinji Inoue *(Tottori University, Japan)*
Jun Ikeda *(Tottori University, Japan)*
Shigeru Yamada *(Tottori University, Japan)*

Statistical Analysis Based on Software Process Data and Quantitative Project Evaluation
Shigeru Yamada *(Tottori University, Japan)*
Makoto Shiomi *(Tottori University, Japan)*

Quantitative Assessment for Software Safety Integrity Level Based on Functional Safety Standards
Takahiro Nishikawa *(Tottori University, Japan)*
Takaji Fujiwara *(SRATECH Laboratory inc., Japan)*
Shigeru Yamada *(Tottori University, Japan)*

Hazard Rate Modeling with Effect of Change-Point for Software Reliability Assessment
Shinji Inoue *(Tottori University, Japan)*
Shiho Hayashida *(Tottori University, Japan)*
Shigeru Yamada *(Tottori University, Japan)*

SESSION 14

Quality & Safety Reliability Analysis

Chair: Yi-Kuei Lin *(National Taiwan University of Science & Technology, Taiwan)*

The Optimal Re-sampling Strategy for a Risk Assessment Model
L. I. Tong *(National Chiao Tung University, Taiwan)*
W. Y. Wei *(National Chiao Tung University, Taiwan)*
P. Y. Wu *(National Chiao Tung University, Taiwan)*

Right Person on the Right Place – A Business Process Perspective
Shin-Guang Chen *(Tungnan University, Taiwan)*

Organizational Safety Climate & Work Safety Performance for Concrete Mixer Drivers
Kai Way Li *(Chung Hua University, Taiwan)*
Zong Kang Liu *(Chung Hua University, Taiwan)*

A Study on the Correlation between Customer and Quality
Jyh-Wen Ho *(Aletheia University, Taiwan)*

Accuracy Rate Issue for System Reliability Evaluation of Multiple Terminals
Yi-Kuei Lin *(National Taiwan University of Science & Technology, Taiwan)*
Cheng-Fu Huang *(National Taiwan University of Science & Technology, Taiwan)*

Saturday, July 28, 2012

8:00 am Registration / Continental Breakfast

8:30 am - 10:00 am

SESSION 15

Warranty Modeling and Prediction

Chair: Minjae Park *(Hongik University, Korea)*

Warranty Repair Demand Prediction Considering New Sales and Failed-But-Not-Reported Phenomena
H.T. Liao *(University of Arizona, USA)*
W. Xie *(University of Arizona, USA)*

Fully Renewing Combination Free Replacement and Pro-Rata Warranty Cost Assessment Using Monte Carlo Simulation
D. Stamenkovic *(University of Belgrade, Serbia)*
V. Popovic *(University of Belgrade, Serbia)*
D. Aleksendric *(University of Belgrade, Serbia)*

A Discrete Time Model of Two Full On-Demand Buses in Local Area
Junji Koyanagi *(Tottori University, Japan)*
Hajime Kawai *(Tottori University, Japan)*

Warranty Policy Based on Failure Time and Warranty Servicing Time
Minjae Park *(Hongik University, Korea)*
Hoang Pham *(Rutgers University, USA)*

SESSION 16

Reliability Design, Modeling and Optimization

Chair: Gordon Savage *(University of Waterloo, Canada)*

Reliability Design Confidence for Systems Subject to Correlated Component Failures
Lance Fiondella *(Eastern Connecticut State University, USA)*
Chendong Li *(University of Connecticut, USA)*

Contracting for Performance-Based Maintenance Service under Profit Maximization
J. Espiritu *(University of Texas, USA)*
C.-H. Sung *(Texas A&M Int'l University, USA)*
T. Jin *(Texas State University, USA)*
H.-Z. Huang *(University of Electronic Science and Tech. of China, China)*

A Copula-based Mechanical System Reliability Model
Hong-wei Yang *(Academy of Armored Forces Engineering, China)*
Yu-an Zhao *(Academy of Armored Forces Engineering, China)*
Cheng-ming He *(Academy of Armored Forces Engineering, China)*

Computing the *Cdf* for Degrading Dynamic Systems
G. J. Savage *(University of Waterloo, Canada)*
Y. K. Son *(Andong National University, Korea)*
T. S. Seecharan *(University of Waterloo, Canada)*

10:00 am - 10:15 am   Coffee Break

10:15 am - 12:15 pm

SESSION 17

Process Control & Reliability Predictions
Chair: Yada Zhu *(IBM T. J. Watson Research Center, USA)*

A Proposed Bayesian Network Model for Analysing the Financial Performance of Containerships under Uncertainty
N.S.F. Abdul Rahman *(Universiti Malaysia Terengganu, Malaysia)*
Z.L. Yang *(Liverpool John Moores University, United Kingdom)*
S. Bonsall *(Liverpool John Moores University, United Kingdom)*
J. Wang *(Liverpool John Moores University, United Kingdom)*

Maintenance Scheduling of a Manufacturing System Subject to Linear Deterioration Model
Reza Ahmadi *(City University London, United Kingdom)*

Reliability and Performance Assessment of an Aviation Security Screening Checkpoint
Karl Severin *(Eastern Connecticut State University, USA)*
Clayton Spinner *(Eastern Connecticut State University, USA)*
Michael Calvo *(Eastern Connecticut State University, USA)*
Derek Doran *(University of Connecticut, USA)*
Lance Fiondella *(Eastern Connecticut State University, USA)*

Comprehensive Reliability Evaluating of Large Mechanical and Electrical Assembling Equipment based on Testing and Controlling
Jun Chen *(China Academy of Engineering Physics, China)*
Fan Li *(China Academy of Engineering Physics, China)*
Yuan Ming Zheng *(China Academy of Engineering Physics, China)*

Virtual Metrology and Run-to-Run Control in Semiconductor Manufacturing
Y. Zhu *(IBM T. J. Watson Research Center, USA)*

R. J. Baseman *(IBM T. J. Watson Research Center, USA)*
J. He *(IBM T. J. Watson Research Center, USA)*
D. D. Restaino *(IBM Microelectronics Division, USA)*
E. Yashchin *(IBM T. J. Watson Research Center, USA)*

SESSION 18

Maintenance Policies & Reliability Applications
Chair: Shaoji Xu *(Allergan, Inc., USA)*

A Multi-Objective Approach to Optimize a Periodic Maintenance Policy
Antonella Certa *(Università degli Studi di Palermo, Italy)*
Mario Enea *(Università degli Studi di Palermo, Italy)*
Giacomo Galante *(Università degli Studi di Palermo, Italy)*
Toni Lupo *(Università degli Studi di Palermo, Italy)*

Research on Reliability Analysis Method for Mechanical Parts Based on Operation State Theory
Cheng-ming He *(Academy of Armored Forces Engineering, China)*
Yu-an Zhao *(Academy of Armored Forces Engineering, China)*
Hong-wei Yang *(Academy of Armored Forces Engineering, China)*

Maintenance Time Oriented Virtual Maintenance Integrated Analysis Method
Le Kang *(Beijing University of Aeronautics and Astronautics, China)*
Dong Zhou *(Beijing University of Aeronautics and Astronautics, China)*
Chuan Lv *(Beijing University of Aeronautics and Astronautics, China)*
Zhiqi Guo *(Beijing University of Aeronautics and Astronautics, China)*
Meihui Wang *(Beijing University of Aeronautics and Astronautics, China)*

On Intraclass Correlation Coefficients
Shaoji Xu *(Allergan, Inc., USA)*
Young Zhu *(Allergan, Inc., USA)*

Reliability Modeling and Life Testings of Main PCB Unit for Electrocardiographic Systems(ECG)
Sung-Min Kim *(Korea Testing Laboratory, Korea)*
Jung-Won Park *(Korea Testing Laboratory, Korea)*
Jeong-Hwan Cho *(Kimpo University, Korea)*

12:15 pm   Adjourn!

ISSAT RQD 2011 Best Paper Award

Reliability of Systems with Identically Distributed Correlated Components
   Lance Fiondella *(University of Connecticut, USA)*
   Panlop Zeephongsekul *(RMIT University, Australia)*

ISSAT RQD 2011 Best Student Paper Award

System Reliability of a Stochastic Manufacturing Network with Reworking Action and Different Yield Rates
   Ping-Chen Chang *(National Taiwan University of Science & Technology, Taiwan)*
   Yi-Kuei Lin *(National Taiwan University of Science & Technology, Taiwan)*
   Mingchih Chen *(Fu-Jen Catholic University, Taiwan)*