Oil Mist Filter Design : A CFD Approach
Ka-Shuen Fung (Hong Kong Institute of Vocational Education, Hong Kong)
Eric T.T. Wong (The Hong Kong Polytechnic University, Hong Kong)

On Designing Virtual Environments based on Intelligent Mechatronic Systems Ildiko Margit Pasc (University of Oradea, Romania)
Radu Catalin Tarca (University of Oradea, Romania)
Florin Popentiu-Vladicescu (University of Oradea, Romania)
Grigore Albeanu (University of Oradea, Romania)

Statistical Modeling of Gas Cooktop Efficiency and Greenhouse Gas Emissions T.T. Wong (The Hong Kong Polytechnic University, Hong Kong)
C.W. Leung (The Hong Kong Polytechnic University, Hong Kong)
W.L. Lo (The Hong Kong Polytechnic University, Hong Kong)
Y.W. Chan (The Hong Kong Polytechnic University, Hong Kong)

2:45 pm - 3:00 pm Break

SESSION 10

Tuesday, July 17, 3:00 pm - 4:30 pm Reliability Design and Modeling of Complex Systems Chair: John Quigley (University of Strathclyde, Scotland)

Reliability Design and Test Model in Manufacturing Facility Design Heung-Suk Hwang (TongMyong University, Korea) Suk-Tae Bae (TongMyong University, Korea) Gyu-Sung Cho (TongMyong University, Korea)

Multivariagte Reliability Modelling with Empirical Bayes Inference John Quigley (University of Strathclyde, Scotland) Lesley Walls (University of Strathclyde, Scotland)

Accelerated Life Tests and Degradation Characteristics of Resistive Humidity Sensors under High Temperature and Humidity

Sung-Min Kim (Korea Testing Laboratory, Korea)

Dong-Hoon Hwang (Korea Testing Laboratory, Korea)

Jung-Won Park (Korea Testing Laboratory, Korea) Jung-Keol Ham (Korea Testing Laboratory, Korea)

Myung-Soo Kim (The University of Suwon, Korea)

Geun-Tae Oh (The University of Suwon, Korea)

Bayesian Optimal Release Time based on Inflection S-Shaped Software Reliability Growth Model Hee Soo Kim (Korea Testing Laboratory, Korea)

Dong Ho Park (Hallym University, Korea)

Shigeru Yamada (Tottori University, Japan)

SESSION 11

Tuesday, July 17, 3:00 pm - 4:30 pm

Product and Process Developments in Complex Environments

Chair: Ka-Shuen Fung (Hong Kong Institute of Vocational Education, Hong Kong)

Development of an Incentive Scheme for Technical Marketing Department in Electronic Component Distribution Industry C. L. Chui (Willas-Array Electronics (Hong Kong) Limited, Hong Kong)

Y. C. Chan (City University of Hong Kong, Hong Kong)

A Requirement-based Methodology for Automotive Software Development Jean-Louis Boulanger (Université de Technologie de Compiègne, France) Quang-Dao Van (Université de Technologie de Compiègne, France)

Modeling of Public Bus Temperature and Velocity: A CFD Approach T.T. Wong (The Hong Kong Polytechnic University, Hong Kong) Edmund M.F. Kwok (The Hong Kong Polytechnic University, Hong Kong) K.P. Lee (The Hong Kong Polytechnic University, Hong Kong) Y.C. Wong (The Hong Kong Polytechnic University, Hong Kong)

Process Modeling for Fruit Dehydration
K.H. Ng (The Hong Kong Polytechnic University, Hong Kong)
T.T. Wong (The Hong Kong Polytechnic University, Hong Kong)



Wednesday, July 18, 2007 - Location: International University

SESSION ¹

Wednesday, July 18, 9:00 am - 11:00 am
Complex Systems Modeling and Computing
Chair: Ho Thanh Phong (HCMC International University, Vietnam)

The Fuzzy Logic System for Risk Level Assessment H.C.W. Lau (The Hong Kong Polytechnic University, Hong Kong) E.N.M. Cheng (The Hong Kong Polytechnic University, Hong Kong) F.T.S Chan (The Hong Kong Polytechnic University, Hong Kong)

Avoidance of Roll Resonance and Wave Impact on Board Ships Knud Benedict (Wismar University of Technology, Germany) Matthias Kirchhoff (Wismar University of Technology, Germany) Michael Baldauf (Wismar University of Technology, Germany)

Computer Simulation Model of Green Houses for the Multi-Attribute Optimal Control of the Air-Conditioning Wojciech Tarnowski (Technical University, Poland)

Bach Lam Bui (Technical University, Poland)

Simulation for Complex Systems through Predictive Maintenance Vasile Anghel (National R & D Institute for cryogenics and Isotopes Technologies, Romania) George Emilian Draghici (University "Politehnica" from Timisoara, Romania)

Application of Reliability / via Hole Testing using the Interconnect Stress Testing System to Improve the Reliability of Printed Circuit Board Assemblies used for DLP TVS Sang-goo Kang (Samsung Electronics Co., Korea), Jun-woo Kim (Samsung Electronics Co., Korea)

SESSION ⁻

Wednesday, July 18, 9:00 am - 11:00 am
Complex Systems and Environments: Methods, Applications and Case Studies
Chair: Hurdy Su (Sususing Co., Ltd., South Africa)

An Approach to Fuzzy Markov Matrix with Application to Service Management - A Case of Rental Excavators Jaw-Sin Su (Chinese Culture University, Taiwan)
Wen-Ling Chang (MasterLijk Co., Ltd., Taiwan)

Learning Object Oriented Concepts by using Intelligent Tutoring Systems *Tuan Nguyen (International University, Vietnam)*

Gender Differences in English Learning with Fuzzy Logics -A Case Study Yen-ju Hou (Shu Zen College of Medicine & Management, Taiwan) Hsueh-yu Cheng (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)

Reverse Auction Model for Argiculture Region and Effecting on The Structural Change of Region Multiagent Technology and GA Approach

Thuy Thanh Nguyen (Hanoi University of Technology, Vietnam)
Phat Van Nguyen (Hanoi University of Technology, Vietnam)
Tuyet Van Dao (HCMC Institute of InformationTechnology, Vietnam)

A Study on Creation of Hair Style in Design — A Case of Beauty Hair Center Eing-Ji Song (Chienkuo Technology University, Taiwan) Hurdy Su (Sususing Co., Ltd., South Africa)

11:15 am - 1:00 pm Lunch

1:15 pm - 4:00 pm Saigon High-Tech visit

4:00 pm Adjourn!



Monday, July 16, 2007 - Location: Continental Hotel

8:15 am - 3:00 pm Registration

SESSION 1

Monday, July 16, 9:00 am - 10:00 am
Keynotes
Phan Thanh Binh, President, Vietnam National University, Vietnam
Hoang Pham, ISE Department Chair, Rutgers University, USA
Dong Ho Park, Dean, School of Natural Science, Hallym University, Korea
Ho Thanh Phong, Vice Rector, HCMC International University, Vietnam

10:00 am - 10:30 am Coffee Break

SESSION 2

Monday, July 16, 10:30 am - 12:00 noon

Modeling and Analysis for Complex Data Problems

Chair: Won Young Yun (Pusan National University, Korea)

Modelling of Decision-Making Process Relating to Design for Operational or Maintenance Properties of Complex Technical Items

Wieslaw Tarelko (Gdynia Maritime University, Poland)

Improving the Artificial Neural Network performance by Principal Components Analysis for Modeling High-Dimension Small-Sample Data Sets Phuong Nga Nguyen (Hanoi Univ. of Technology, Vietnam)
Thanh Thuy Nguyen (Hanoi Univ. of Technology, Vietnam)
Ngoc Binh Nguyen (Vietnam National University, Vietnam)

Modeling Lactation Curves using New Zealand Data Mark Bebbington (Massey University, New Zealand) Chin-Diew Lai (Massey University, New Zealand) Riãardas Zitikis (University of Western Ontario, Canada)

Performance Evaluation of Distributed Hash Table (DHT) CHord Algorithm Chan Hung Nguyen (Hanoi University of Technology, Vietnam)
Hoang Giang Ngo (Hanoi University of Technology, Vietnam)
Tan Pek Yew (Panasonic Singapore Laboratory, Singapore)

12:00 pm - 1:00 pm Lunch

SESSION 3

Monday, July 16, 1:15 pm - 2:45 pm

Performability / Risk Complex Modeling

Chair: Emilio Ferrari (University of Bologna, Italy)

Checking Static Crosscuts of Aspect J Model using B Notation Ninh Thuan Truong (Vietnam National University, Hanoi, Vietnam) Viet Ha Nguyen (Vietnam National University, Hanoi, Vietnam)

Parameters Estimation in Ageing Models using Bayesian Approach I. Žutautait (Lithuanian Energy Institute, Lithuania) J. Augutis (Lithuanian Energy Institute, Lithuania)

E. Ušpuras (Lithuanian Energy Institute, Lithuania)

Optimization the Performance of Optical Mesh Networks by using Traffic Grooming Technique Thanh Thao Thi Nguyen (International University, Vietnam)

A Study on Achievement Learning by Psychology Factors of College Students Hsi-Lin Yang (Chienkuo Technology University, Taiwan)

2:45 pm - 3:15 pm Coffee break



SESSION 4

Monday, July 16, 3:15 pm - 4:45 pm

Optimization of Complex Dynamic Systems

Chair: Dong Ho Park (Hallym University, Korea)

Dynamic Performance Optimization of a Vibration Absorber for an Uncertain System using a Probabilistic Design Approach Young Kap Son (Hanyang University, Korea) Seog-weon Chang (Hanyang University, Korea) Gordon J. Savage (University of Waterloo, Canada)

Optimization Based Design for 2-D Nonseparable Filters Hung Q. Ta (University of New South Wales, Australia) Tuan D. Hoang (University of New South Wales, Australia) T. Q. Nguyen (University of California, San Diego, U.S.A.)

A Resource Allocation Model and an Efficient Solution Algorithm Chih-Young Hung (National Chiao Tung University, Taiwan)
Jia-Ren Yang (National Chiao Tung University, Taiwan)
Li-Han Kao (National Chiao Tung University, Taiwan)
Yi-Hsin Liu (Hsuan Chuang University, Taiwan)
Dong Ho Park (Hallym University, Korea)

Optimal Stock Allocation of MIME System using GA and Simulation Gue Rae Kim (Pusan National University, Korea) Won Young Yun (Pusan National University, Korea) Il Han Joung (Rotem, Co., Ltd, Korea) Ho Gyun Kim (Dong-Eui University, Korea)

7:00 pm - 9:00 pm Reception

Tuesday, July 17, 2007 - Location: International University

SESSION

Tuesday, July 17, 9:00 am - 9:30 am

Plenary Talk "What Every Engineer Should Know About Working with Complex Systems"

Dev Raheja (Design for Competitiveness, Inc., USA)

Chair: Hoang Pham (Rutgers University, USA)

9:30 am - 9:45 am Break

SESSION

Tuesday, July 17, 9:45 am - 11:15 am

Data Mining and Information Processing

Chair: Ho Thanh Phong (HCMC International University, Vietnam)

An Infinite-server Queueing Model for Multi-task Processing System Based on Markovian Perfect Debugging Model with Two Types of Faults

Chong Hyung Lee (Konyang University, Korea)

Kyu Beom Jang (Hallym University, Korea)

Dong Ho Park (Hallym University, Korea)

An Algorithm for Processing Linear System in Modeling or Analysis

Mingquan Shi (University of Electronic Science & Technology of China, China)

Guanghui Jing (University of Electronic Science & Technology of China, China)

Haibo Sun (University of Electronic Science & Technology of China, China)

Modeling of Cryptographic Protocols in First-Order Logic Jihong Han (Zhengzhou Information Science and Technology Institute, China) Zhiyong Zhou (Zhengzhou Information Science and Technology Institute, China) Yadi Wang (Zhengzhou Information Science and Technology Institute, China) Lin Yuan (Zhengzhou Information Science and Technology Institute, China)

Multi-scale Features and SVM Algorithm in Analyzing Protein Subcellular Location Microscopy Images Quoc Viet Ngo (University of Natural Science, Vietnam)
Thi Le Tran (University of Natural Science, Vietnam)
Dinh Thuc Nguyen (University of Natural Science, Vietnam)

SESSION 7

Tuesday, July 17, 9:45 am - 11:15 am

Industrial Automation and Maintenance Plants

Chair: T.T. Wong (The Hong Kong Polytechnic University, Hong Kong)

A Cost Based Model for Failure Modes Analysis, Reliability Prediction and Magnitudo Evaluation of a Waste to Energy Plant

Riccardo Manzini (University of Bologna, Italy) Emilio Ferrari (University of Bologna, Italy) Alex Meccariello (University of Bologna, Italy) Alberto Regattieri (University of Bologna, Italy)

Human Factor Modeling in AirCraft Maintenance T.T. Wong (The Hong Kong Polytechnic University, Hong Kong) K.S. Pang (The Hong Kong Polytechnic University, Hong Kong)

The Research for the Ultrasonic Welding System in High-G Accelerometer Xiaoming Liu (University of Electronic Science and Technology of China, China) Lin Liu (University of Electronic Science and Technology of China, China) Zhonggan Zhu (University of Electronic Science and Technology of China, China)

A TCP/AQM Fluid Flow Model for Congestion Control Yuanqiu Li (The Hong Kong Polytechnic University, Hong Kong) Jing Tao (The Hong Kong Polytechnic University, Hong Kong) Jifeng Sun (The Hong Kong Polytechnic University, Hong Kong) T.T. Wong (The Hong Kong Polytechnic University, Hong Kong)

11:30 am - 1:00 pm Lunch

SESSION 8

Tuesday, July 17, 1:15 pm - 2:45 pm Systems and Software Engineering Design and Safety Chair: Dev Raheja (Design for Competitiveness, Inc., USA)

An Authentication Protocol based on Threshold Secret Sharing Dinh Thuc Nguyen (University of Natural Science, Vietnam) Ngoc Bao Tran (University of Natural Science, Vietnam)

Sustainable Cooktop Design: A Neural Factorial Design Approach Tao Jing (The Hong Kong Polytechnic University, Hong Kong)
Sun Jifeng (The Hong Kong Polytechnic University, Hong Kong)
Li Yuanqiu (The Hong Kong Polytechnic University, Hong Kong)
T.T. Wong (The Hong Kong Polytechnic University, Hong Kong)
C.W. Leung (The Hong Kong Polytechnic University, Hong Kong)

Simulated Annealing Algorithm with Adaptive Cooling Schedule for Microscopy Image Segmentation Quoc Viet Ngo (University of Natural Science, Vietnam)

Dinh Thuc Nguyen (University of Natural Science, Vietnam)

Phuoc Huy Dang (Dalat University, Vietnam)

Applying Pretopological Concepts & Negotiation Analysis to study Cockpit's Perspective to Collaborate Decision Making

Matthias Groppe (EPHE Sorbonne, France)

Matthias Groppe (EPHE Sorbonne, Fran Marc Bui (EPHE Sorbonne, France)

SESSION 9

Tuesday, July 17, 1:15 pm - 2:45 pm Integrated Information Systems in Complex Environments Chair: Florin Popentiu-Vladicescu (University of Oradea, Romania)

MAS for Modelling Dynamic Manufacturing Systems
Tung Dang (University of Limerick, Ireland)
Cáthál Wilson (University of Limerick, Ireland)
Con Sheahan (University of Limerick, Ireland)

