

	<p style="text-align: center;">ISBIS 2012 June 17 – 21, 2012 Bangkok, THAILAND PROGRAM</p>	
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WOKSHOPS
SUNDAY JUNE 17, 2012
CHULALONGKORN UNIVERSITY, BANGKOK

9:00 am – 1.00 pm	<p style="text-align: center;">DATA MINING AND BUSINESS ANALYTICS Instructor: <u>David Banks</u>, Duke University, USA</p>	Room: TBA
2:00 pm – 5.00 pm	<p style="text-align: center;">HOW TO SUCCEED IN STATISTICAL CAREERS — TIPS FOR YOUNG STATISTICIANS Instructors: <u>Roger Hoerl</u>, <u>Vijay Nair</u>, and <u>Sastry Pantula</u>, USA</p>	Room: TBA

Note: The workshops on Sunday will be held at Chulalongkorn University. There will be transportation from Shangri La Hotel for participants staying in that area. More information with directions and maps will be sent to participants who are registered for the workshops and will also be posted on the website.

TECHNICAL SESSIONS
JUNE 18 – JUNE 20, 2012
SHANGRI LA HOTEL, BANGKOK

MONDAY JUNE 18, 2012		
Monday June 18 7:30 am – 8:45 am	REGISTRATION	Ballroom Foyer
Monday June 18 8:45 am – 9:30 am	OPENING CEREMONY	Ballroom 1
Monday June 18 9:30 am – 10:10 am	SESSION 1 – PLENARY I Organizer/Chair: <u>Vijay Nair</u> , University of Michigan, USA ISI and Statistics in the International Arena <u>Jae C. Lee</u> , President, International Statistical Institute and Professor Emeritus, Korea University, Seoul, S. KOREA jaeclee@korea.ac.kr	Ballroom 1
Monday June 18 10:10 am – 10:30 am	BREAK	

PARALLEL SESSIONS

Monday June 18 10:30 am – 12:10 pm	SESSION 2 (INVITED): RELIABILITY PLANNING AND INFERENCE Organizer: <u>William Q. Meeker</u> , Iowa State University, USA wqmeeker@iastate.edu Chair: <u>Jack Kalbfleisch</u> , University of Michigan, Ann Arbor, MI, USA, jdkalbfl@umich.edu 2A: A Special Non-homogeneous Poisson Process Estimation for Window-Observation Repairable Systems <u>Yili Hong</u> , Virginia Tech, Blacksburg, VA, USA yilihong@vt.edu 2B: Statistical Methods for Degradation Data with Dynamic Covariates and an Application to Outdoor Weathering Prediction <u>William Q. Meeker</u> , Iowa State University, USA wqmeeker@iastate.edu 2C: Planning and Inference for a Progressively Censored Study from Linear Hazard Rate Distributions: A Bayesian Approach <u>Ananda Sen</u> , University of Michigan, USA anandas@umich.edu	Myanmar Room
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<p>Monday June 18 10:30 am – 12:10 pm</p>	<p>SESSION 3(INVITED): ANALYSIS OF TEMPORAL AND SPATIO-TEMPORAL DATA Organizer: <u>David Banks</u>, Duke University, USA Chair: <u>Yap Bee Wah</u>, Universiti Teknologi Mara, MALAYSIA beewah@tmsk.uitm.edu.my</p> <p>3A: Simulated Maximum Likelihood in an Autoregressive Model with Stochastic Volatility Errors <u>Bovas Abraham</u>, University of Waterloo, Waterloo, CANADA babraham@math.uwaterloo.ca</p> <p>3B: Partial Least Squares and Vector Autoregressive Models <u>Graciela González Farías</u>, Centro de Investigación en Matemáticas, Monterrey, MEXICO gmfarias@gmail.com</p> <p>3C: Multivariate spatio-temporal models with applications to air quality dynamic mapping and upper air circulation monitoring <u>Alessandro Fassó</u>, University of Bergamo, ITALY alessandro.fasso@unibg.it</p>	<p>Philipines Room</p>
<p>Monday June 18 10:30 am – 12:10 pm</p>	<p>SESSION 4 (INVITED): HIGH DIMENSIONAL ANALYSIS (y-BIS Session) Organizer: <u>Paulo Canas Rodrigues</u>, Nova University of Lisbon, PORTUGAL paulocanas@gmail.com Chair: <u>Anupap Somboonsawatdee</u>, Chulalongkorn University, THAILAND anupap@acc.chula.ac.th</p> <p>4A: Model Building for Dynamic Treatment Regimes <u>Eric Laber</u>, North Carolina State University, USA eblaber@ncsu.edu</p> <p>4B: Low Rank Approximations and Weighted PCA <u>Paulo Canas Rodrigues</u>, Research Center for Mathematics and Applications, Nova University of Lisbon, PORTUGAL paulocanas@gmail.com</p> <p>4C: Variable Selection and Estimation in High-Dimensional Regression <u>Vitara Pungpapong</u>, Chulalongkorn University, Bangkok THAILAND vitara.p@gmail.com</p>	<p>Brunei Room</p>

<p>Monday June 18 10:30 am – 12:10 pm</p>	<p>SESSION 5 (INVITED): STATISTICS IN ACTUARIAL SCIENCE Organizer: <u>David Banks</u>, Duke University, USA Chair: <u>Regina Liu</u>, Rutgers University, USA rliu@stat.rutgers.edu</p> <p>5A: Estimation of Structural Parameters in Insurance Credibility Context using Linear Mixed Models <u>Wing Kam Fung</u>, Department of Statistics and Actuarial Science, University of Hong Kong, HONG KONG wingfung@hku.hk</p> <p>5B: Use of Statistical Techniques in Complex Actuarial Modeling and Prediction <u>Jay Vadiveloo</u>, Towers Watson Company and University of Connecticut, USA Jay.Vadiveloo@towerswatson.com</p> <p>5C: Modeling Risks for Long Term Insurance and Pension Products <u>Roy Welsch</u> and <u>David Zhu</u>, Operations Research Center and Sloan School of Management, Massachusetts Institute of Technology, Cambridge, MA, USA rwelsch@mit.edu</p>	<p>Malaysia Room</p>
<p>Monday June 18 10:30 am – 12:10 pm</p>	<p>SESSION 6 (CONTRIBUTED): STATISTICS IN GOVERNMENT AND INDUSTRY Chair: <u>A. Thavaneswaran</u>, University of Manitoba, CANADA thavane@cc.umanitoba.ca</p> <p>6A. The Annual Survey of Establishments of the Philippines: Developments, Issues, and Future Directions <u>Lourdes V. Homecillo</u>, National Statistics Office, Manila, PHILIPPINES L.Homecillo@census.gov.ph</p> <p>6B. Improving Business Climate in Cameroon: What are the Priority Reforms? <u>Tatiana Morel Samo Tcheeko</u>, Ministry of Economy, CAMEROON tatianamorel7@yahoo.fr</p> <p>6C. An Exploration of the Development of Statistical Consulting for Industrial and Commercial Enterprises in China <u>Yu Zhu</u>, Department of Statistics, Xi'an Eurasia University, Xi'an, CHINA zhuyu@eurasia.edu</p> <p>6D. The Influence of Electricity Production on the Gross Domestic Products of Selected African Countries <u>Olugbemi Olujimi</u>, TNS RMS, NIGERIA olugbemi.olujimi@tnsglobal.com olugbemijimi@yahoo.com</p> <p>6E. Minimum Wage and Nation's Economic Competitiveness: An Empirical Discourse Analysis</p>	<p>Indonesia Room</p>

	Kittisak Jermsittiparsert, Kasetsart University, THAILAND finn_ramon@hotmail.com	
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Monday June 18 12:10 pm – 1:30 pm	LUNCH	
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PARALLEL SESSIONS

Monday June 18 1:30 pm – 3:10 pm	<p>SESSION 7 (INVITED): MODELING, MONITORING, AND CONTROL OF MANUFACTURING PROCESSES</p> <p>Organizers: <u>Ran Jin</u>, Virginia Tech, USA ran5@vt.edu and <u>Jianjun (Jan) Shi</u>, Georgia Institute of Technology, USA jianjun.shi@isye.gatech.edu</p> <p>Chair: <u>Jan Shi</u>, Georgia Institute of Technology, USA</p> <p>7A: Degradation Modeling Based on Operating Regime Dependent Equipment and Application to Integrated Decision Making in Manufacturing Systems <u>Dragan Djurdjanovic</u>, Department of Mechanical Engineering, Univ. of Texas at Austin, USA dragand@me.utexas.edu</p> <p>7B: Statistical Analysis and Modeling of Wafer Quality Variation <u>Kaibo Wang</u>, Department of Industrial Engineering, Tsinghua University, Beijing, P. R. CHINA kbwang@tsinghua.edu.cn</p> <p>7C: Modeling and Control of Wafer Geometric Profiles in Semiconductor Manufacturing Processes <u>Ran Jin</u>, Department of Industrial and Systems Engineering, Virginia Tech, USA ran5@vt.edu and <u>Jianjun (Jan) Shi</u>, Georgia Institute of Technology, USA jianjun.shi@isye.gatech.edu</p>	Myanmar Room
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Monday June 18 1:30 pm – 3:10 pm	<p>SESSION 8 (INVITED): STATISTICS FOR COMPLEX AND HIGH-DIMENSIONAL MODELS (y-BIS Session)</p> <p>Organizer/Chair: <u>Eric Laber</u>, North Carolina State University, USA eblaber@ncsu.edu</p> <p>8A: Efficient Portfolio Selection in a Large Market <u>Ming Yuan</u>, Georgia Tech, USA myuan@isye.gatech.edu</p>	Philippines Room
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	<p>8B: Estimating Single Index Models in High Dimensions Peter Radchenko, School of Business, University of Southern California, USA radchenk@marshall.usc.edu</p> <p>8C: Bayesian Inference for General Gaussian Graphical Models with Application to Multivariate Lattice Data Abel Rodriguez, University of California at Santa Cruz, USA abel@soe.ucsc.edu</p>	
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<p>Monday June 18 1:30 pm – 3:10 pm</p>	<p>SESSION 9 (INVITED): STATISTICAL MODELING IN THE ENVIRONMENTAL SCIENCES Organizer: Galit Shmueli, Indian School of Business, Hyderabad, INDIA galit.shmueli@gmail.com Chair: Supol Durongwatana, Chulalongkorn University, THAILAND Supol@acc.chula.ac.th</p> <p>9A. Mapping Population Exposure and Risk to Airborne Pollutants over Large Areas using Ground Level and Satellite Data Francesco Finazzi, University of Bergamo, Dalmine, ITALY francesco.finazzi@unibg.it</p> <p>9B: GIS-Based Odor Impact Assessment from Biosolids Land Application Sites Eakalak Intarakosit, 1st Engineer Regiment King's Guard, THAILAND eakalak.intarakosit@gmail.com</p> <p>9C: Techniques for Monitoring Air Pollution Variables Sotiris Bersimis, GREECE, sbersim@unipi.gr</p>	<p>Brunei Room</p>
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<p>Monday June 18 1:30 pm – 3:10 pm</p>	<p>SESSION 10 (INVITED): BUSINESS SURVEYS Organizer: Balgobin Nandram, Worcester Polytechnic Institute, balnan@wpi.edu Chair: Reinhard Viertl, Vienna University of Technology, Vienna, AUSTRIA r.viertl@tuwien.ac.at</p> <p>10A: Multilevel Models and Small Area Estimation in the Context of Viet Nam Living Standards Surveys Dominique Haughton, Bentley University and Toulouse I University, FRANCE dhaughton@bentley.edu</p> <p>10B: Hierarchical Bayesian Approach to a Multi-site Hidden Markov Model Dalho Kim, Ayunghook National University, Daegu, S. KOREA</p>	<p>Malaysia Room</p>
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	dhkim6380@hotmail.com 10C: Bayesian Predictive Inference of the Performance of Third Grade Students by Communities Balgobin Nandram, Department of Mathematical Sciences, Worcester Polytechnic Institute, Worcester, USA balnan@wpi.edu	
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Monday June 18 1:30 pm – 3:10 pm	SESSION 11 (CONTRIBUTED): RELIABILITY ANALYSIS AND MAINTENANCE Chair: Asha Gopalakrishnan , University of Science & Technology, Cochin, INDIA 11A. Predictive Maintenance Jing Y. Shyr , IBM Business Analytics, Bangkok, THAILAND 11B. Optimizing an Established Multi-component Preventive Maintenance Model Using an Improved PSO Algorithm Sheng-Wang Tsai, TAIWAN pippenduck@yahoo.com.tw 11C. Statistical Inference of Type-II Progressively Hybrid Censored Data Ping Shing Chan, Department of Statistics, The Chinese University of Hong Kong, HONG KONG benchan@cuhk.edu.hk 11D. Subdistribution to Cox's Model For Partly Interval-Censored Data with Application to AIDS Studies Faiz Ahmed Mohamed Elfaki , Department of Science in Engineering, IIUM, Kuala Lumpur, MALAYSIA	Indonesia Room
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Monday June 18 3:10 pm – 3:30 pm	BREAK	
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PARALLEL SESSIONS

Monday June 18 3:30 pm – 5:10 pm	SESSION 12 (INVITED): META-ANALYSIS FOR BINARY EXPERIMENTS WITH RARE EVENTS OR UNUSUAL SETTINGS Organizer: Regina Liu , Rutgers University, USA Chair: Roy Welsch , Massachusetts Institute of Technology,	Myanmar Room
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	<p>Cambridge, MA, USA rwelsch@mit.edu</p> <p>12A: Meta Analysis for Rare Events Tianxi Cai, Harvard University, USA tcai@hsph.harvard.edu</p> <p>12B: Exact Meta Analysis for 2x2 Tables with Application to Rare Events Regina Liu, Rutgers University, USA rliu@stat.rutgers.edu</p> <p>12C: Decision-making in Post Clinical Trials Heping Zhang, Yale University, USA heping.zhang@yale.edu</p>	
<p>Monday June 18 3:30 pm – 5:10 pm</p>	<p>SESSION 13 (INVITED): RECENT ADVANCES IN TIME SERIES MODELING (ICSA Session) Organizer/Chair: <u>Wai Keung Li</u>, University of Hong Kong, HONG KONG hrntlwk@hku.hk</p> <p>13A: A Peaks-Over-Threshold Model with Applications to Extreme Identification in Ozone Data <u>Tony Wong</u>, Hong Kong University, HONG KONG wongtst@hotmail.com</p> <p>13B: Least-absolute Deviation Estimation for Non-stationary Vector Autoregressive Time Series Models with Pure Unit Roots <u>Guodong Li</u>, Jianhong Wu and <u>Wai Keung Li</u>, University of Hong Kong, Zhejiang Gongshang University and University of Hong Kong, HONG KONG gqli@hku.hk</p> <p>13C: Semi-parametric GARCH-in-mean Models <u>Heung Wong</u>, Department of Applied Mathematics, Hong Kong Polytechnic University, HONG KONG mathwong@polyu.edu.hk</p>	<p>Philipines Room</p>
<p>Monday June 18 3:30 pm – 5:10 pm</p>	<p>SESSION 14 (INVITED): RECENT ADVANCES IN STATISTICAL QUALITY TECHNIQUES Organizer: <u>Fugee Tsung</u>, Hong Kong, University of Science and Technology, HONG KONG season@ust.hk Chair: <u>Judy Jin</u>, University of Michigan, Ann Arbor, USA jhjin@umich.edu</p> <p>14A: The Median Chart with Estimated Parameters <u>Philippe Castagliola</u>, Université de Nantes & IRCCyN UMR CNRS 6597, Carquefou, Cedex, FRANCE philippe.castagliola@univ-nantes.fr</p>	<p>Brunei Room</p>

	<p>14B: An Adaptive Generalized Likelihood Ratio Control Chart for Detecting Unknown Patterned Mean Shifts Giovanna Capizzi, capizzi@stat.unipd.it and Guido Masarotto, guido.masarotto@unipd.it, Department of Statistical Sciences, University of Padua, ITALY</p> <p>14C: Statistical Quality Techniques in Service Science and Engineering Fugee Tsung, Hong Kong, University of Science and Technology, HONG KONG season@ust.hk</p>	
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<p>Monday June 18 3:30 pm – 5:10 pm</p>	<p>SESSION 15 (INVITED): STATISTICS IN BUSINESS AND INDUSTRY IN EUROPE (ENBIS Session) Organizer: <u>Fabrizio Ruggeri</u>, CNR IMATI, Milano, ITALY fabrizio@mi.imati.cnr.it Chair: <u>Francesco Mola</u>, University of Cagliari, ITALY mola@unica.it</p> <p>15A: Recent Developments in Statistical Audit Sampling Kristina Lurz and Rainer Göeb , University of Wuerzburg, GERMANY kristina.lurz@uni-wuerzburg.de</p> <p>15B: Measurement System Analysis for Binary Inspection Tashi Erdmann, Institute for Business and Industrial Statistics, University of Amsterdam, NETHERLANDS, T.P.Erdmann@uva.nl</p> <p>15C: On the Nonlinear Profiles Monitoring Problem Stelios Psarakis, Department of Statistics, Athens University of Economics & Business, Athens, GREECE psarakis@aueb.gr</p>	<p>Malaysia Room</p>
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<p>Monday June 18 3:30 pm – 5:10 pm</p>	<p>SESSION 16 (CONTRIBUTED): STATISTICAL MODELING AND ANALYSIS Chair: <u>Lourdes V. Homecillo</u>, National Statistics Office, Manila, PHILIPINES L.Homecillo@census.gov.ph</p> <p>16A. Comparison of the q-fraction Mixture Rule with Popular Mixture Models Employing Bootstrap <u>Mia Ackermann</u>, University of Pretoria, SOUTH AFRICA mia.ackermann@gmail.com</p> <p>16B. Comparison of Optimal Design Criteria to Estimate the Individual Effects in the Random Weights Linear Logistic Test Model <u>Marjolein Crabbe</u>, Katholieke Universiteit Leuven, BELGIUM</p>	<p>Indonesia Room</p>
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	marjolein.crabbe@econ.kuleuven.be 16C: The Coverage Properties of Improved Prediction Intervals Incorporating Utility Function Khreshna Syuhada and Rizky Saputra, Institut Teknologi Bandung, INDONESIA rizhanputra.rizhanputra@gmail.com 16D. Dynamic Analysis of National Innovation System Yi Hsu, National Formosa University, TAIWAN evhsu@ms22.hinet.net 16E. The Impact of Economic Growth on the Traffic Adil Yousif, Department of Mathematics and Statistics, Qatar University, QATAR aeyousif@qu.edu.qa	
Monday June 18 5:15 pm	RECEPTION	Garden Gallery room

TUESDAY JUNE 19, 2012

PARALLEL SESSIONS

<p>Tuesday June 19 9:00 am – 10:10 am</p>	<p>SESSION 17 (INVITED): LARGE-SCALE SIMULATIONS AND EXPERIMENTS Organizer: <u>Vijay Nair</u>, University of Michigan, USA vnn@umich.edu Chair: <u>Roshan Vengazhiyil</u>, Georgia Institute of Technology, USA roshan@isye.gatech.edu</p> <p>17A: Simulation of a Kidney Paired Donation Program <u>Jack Kalbfleisch</u>, Department of Biostatistics, University of Michigan, Ann Arbor, USA jdkalbfl@umich.edu</p> <p>17B: Design of Computer Experiments: Space-Filling and Beyond Werner Mueller, Johannes Kepler Universität Linz, AUSTRIA Werner.Mueller@jku.at</p>	<p>Myanmar Room</p>
<p>Tuesday June 19 9:00 am – 10:10 am</p>	<p>SESSION 18 (INVITED): BAYESIAN STATISTICS/ECONOMETRICS WITH BUSINESS APPLICATIONS (y-BIS session) Organizer: <u>Nuttanan Wichitaksorn</u>, University of Sydney Business School, nwic9927@uni.sydney.edu.au Chair: <u>Balgobin Nandram</u>, Worcester Polytechnic Institute, USA balnan@wpi.edu</p> <p>18A: Bayesian Methods for Estimation, Inference and Forecasting of Flexible Models for Value-at-Risk and Tail Conditional Expectations <u>Qian Chen</u>, Peking University HSBC Business School, CHINA siva1103@hotmail.com</p> <p>18B: Bayesian Analysis of Multivariate Regression Model through Elliptical Copulas and Scale Mixtures of Normal <u>Nuttanan Wichtiaksorn</u>, S.T. Boris Choy, and Richard Gerlach, Discipline of Business Analytics, University of Sydney Business School, AUSTRALIA nwic9927@uni.sydney.edu.au</p>	<p>Philippines Room</p>
<p>Tuesday June 19 9:00 am – 10:10 am</p>	<p>SESSION 19 (INVITED): STATISTICAL ISSUES IN POPULATION FORECASTING AND DISCLOSURE RISK Organizer: <u>Vijay Nair</u>, University of Michigan, USA vnn@umich.edu Chair: <u>Yili Hong</u>, Department of Statistics, Virginia Tech, Blacksburg, VA, USA yilihong@vt.edu</p>	<p>Brunei Room</p>

	<p>19A: Long-Term Forecasting with the Gompertz Growth Curve Peter Pflaumer, Technical University of Dortmund, GERMANY peter.pflaumer@uni-dortmund.de</p> <p>19B: Realizing Confidential Data: A Framework for Assessing Disclosure Risk Giovanni Merola, RMIT International University, VIET NAM giovanni.merola@rmit.edu.vn</p>	
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<p>Tuesday June 19 9:00 am – 10:10 am</p>	<p>SESSION 20 (INVITED): FUZZY METHODS IN BUSINESS AND INDUSTRY Organizer: Reinhard Viertl, Vienna University of Technology, Vienna, AUSTRIA r.viertl@tuwien.ac.at Chair: S. Ejaz Ahmed, Brock University, CANADA seahmed12@gmail.com</p> <p>20A: Fuzzy Models in Reliability Analysis Reinhard Viertl, Department of Statistics and Probability Theory, Vienna University of Technology, Vienna, AUSTRIA r.viertl@tuwien.ac.at</p> <p>20B: A Framework for Fuzzy Rule-based Lapping Advisory Systems Owat Sunanta (owat.sunanta@tuwien.ac.at) Department of Statistics and Probability Theory, Vienna University of Technology, Vienna, AUSTRIA, and Bopaya Bidanda, Department of Industrial Engineering, University of Pittsburgh, Pittsburgh, USA</p>	<p>Malaysia Room</p>
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<p>Tuesday June 19 9:00 am – 10:10 am</p>	<p>SESSION 21: (CONTRIBUTED) DESIGN AND ANALYSIS OF EXPERIMENTS Chair: Ran Jin, Virginia Tech, USA ran5@vt.edu</p> <p>21A. Efficient Designs for Mixture Experiments with Process Variables Yong Bin Lim, Department of Statistics, Ewha Woman's University, Seoul, S. KOREA yblim@ewha.ac.kr</p> <p>21B. Designing Two-level Factorial Experiments in Blocks of Size Four P. C. (P. E. Cheng) Wang, Chang Gung University, TAIWAN pcwang@mail.cgu.edu.tw</p> <p>21C. A Model to Evaluate Energy Efficiency and Thermal Performance of Building with Vegetal Façades</p>	<p>Indonesia Room</p>
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	M. Dolores Redondas, Universidad Politécnica de Madrid, SPAIN dolores.redondas@upm.es	
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Tuesday June 19 10:10 am – 10:30 am	BREAK	
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Tuesday June 19 10:30 am – 11:20 am	SESSION 22 – PLENARY II Organizer: <u>Vijay Nair</u> , University of Michigan, Ann Arbor, USA vn@umich.edu Chair: <u>Ananda Sen</u> , University of Michigan, Ann Arbor, USA anandas@umich.edu Statistical, Mathematical and Computational Sciences (SMACS): Invisible Sciences, Impeccable Impact! <u>Sastry Pantula</u> , Director, Division of Mathematical Sciences, National Science Foundation, USA spantula@nsf.gov	Ballroom 1
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Tuesday June 19 11:20 am – 12:00 noon	SPECIAL INVITED PRESENTATION Chair: <u>Haishan Fu</u> , United Nations – ESCAP, Bangkok, THAILAND Asia and Pacific Regional Program on Economic Statistics <u>Daniel Clarke</u> , Statistician, United Nations – ESCAP, Bangkok, THAILAND clarke@un.org	Ballroom 1
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Tuesday June 19 12:00 noon – 1:20 pm	LUNCH	
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PARALLEL SESSIONS

Tuesday June 19 1:20 pm – 3:00 pm	SESSION 23: (INVITED): MONITORING PROCESS CHANGES AND SELECTION OF PARAMETERS IN MODERN INDUSTRIAL APPLICATIONS Organizers: <u>Changsoon Park</u> , Department of Statistics, Chung-Ang University, Seoul, S. KOREA cspark@cau.ac.kr and <u>Kwok Tsui</u> , City University of Hong Kong, HONG KONG kltsui@cityu.edu.hk Chair: <u>Changsoon Park</u> , Chung-Ang University, Seoul, S. KOREA 23A: Detecting Clusters with Mean Shifts <u>Chen-ju Lin</u> , Department of Industrial Engineering & Management, Yuan Ze University, Chungli, TAIWAN, Chenju.lin@saturn.yzu.edu 23B: Selecting an Optimal Mixed Effect Model Based on	Myanmar Room
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	<p>Information Criteria Wataru Sakamoto, Division of Mathematical Science, Osaka University, JAPAN sakamoto@sigmath.es.osaka-u.ac.jp</p> <p>23C: Monitoring Reliability Performance with Statistical Control Charts Min Xie, Department of Systems Engineering and Engineering Management, City University of Hong Kong, HONG KONG minxie@cityu.edu.hk</p>	
<p>Tuesday June 19 1:20 pm – 3:00 pm</p>	<p>SESSION 24 (INVITED): ANALYSIS OF HIGH-DIMENSIONAL DATA Organizer: Ejaz Ahmed, Brock University, CANADA seahmed12@gmail.com Chair: Pilar Munoz, Technical University of Catalonia, Barcelona, SPAIN pilar.munoz@upc.edu</p> <p>24A: Perspectives on Human Bias versus Machine Bias: Weibull Censored Regression Model S. Ejaz Ahmed, Brock University, CANADA seahmed12@gmail.com</p> <p>24B: Likelihood Adaptively Modified Penalties and its Properties Yang Feng, Columbia University, USA yangfeng@stat.columbia.edu</p> <p>24C: Text Mining David Banks, Department of Statistical Science, Duke University, USA banks@stat.duke.edu</p>	<p>Philipines Room</p>
<p>Tuesday June 19 1:20 pm – 3:00 pm</p>	<p>SESSION 25 (INVITED): STATISTICS IN MARKETING AND FINANCE Organizer: Nalini Ravishanker, University of Connecticut, USA nalini.ravishanker@gmail.com Chair: Jay Vadiveloo, Towers Watson Company, USA Jay.Vadiveloo@towerswatson.com</p> <p>25A: Hierarchical Dynamic Statistical Models with an Application to Marketing in the Pharmaceutical Industry Nalini Ravishanker, Department of Statistics, University of Connecticut, USA nalini.ravishanker@gmail.com</p> <p>25B: Recursive Estimation for Financial Time Series with Heavy-tailed Innovations</p>	<p>Brunei Room</p>

	<p>A. Thavaneswaran, Department of Statistics, University of Manitoba, CANADA thavane@cc.umanitoba.ca</p> <p>25C: Recent Developments in Fuzzy Coefficient Volatility Models: Option and Bond Pricing</p> <p>S. S. Appadoo, Department of Supply Chain Management, University of Manitoba, CANADA appadoo@gmail.com</p>	
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<p>Tuesday June 19 1:20 pm – 3:00 pm</p>	<p>SESSION 26: ASMBI INVITED PAPER SESSION</p> <p>Organizer/Chair: <u>Fabrizio Ruggeri</u>, Editor-in-Chief, Applied Stochastic Models in Business and Industry (Official Journal of ISBIS)</p> <p>Statistical Learning Methods for Information Security: Theory and Case Studies</p> <p><u>Yuh-Jye Lee</u>, Department of Computer Science and Information Engineering, National Taiwan University of Science and Technology, Taipei, TAIWAN yuh-jye@mail.ntust.edu.tw</p> <p>Discussion:</p> <p><u>Ravi Ravishanker</u>, Chief Information Officer, Wellesley College, MA, USA gravishanker@wellesley.edu</p> <p><u>Fabrizio Ruggeri</u>, CNR IMATI, Milano, ITALY fabrizio@mi.imati.cnr.it</p>	<p>Malaysia Room</p>
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<p>Tuesday June 19 1:20 pm – 3:00 pm</p>	<p>SESSION 27 (CONTRIBUTED): COMPUTATIONALLY INTENSIVE METHODS</p> <p>Chair: <u>Cha Chi Fan</u>, US Energy Information Administration, Washington DC, USA ChaChi.Fan@eia.gov</p> <p>27A. Goodness-of-Fit Diagnostics for Bayesian Hierarchical Models</p> <p><u>Ying Yuan</u>, Department of Biostatistics, University of Texas MD Anderson Cancer Center, Houston, TX, USA yyuan@mdanderson.org</p> <p>27B. A Variable Selection Procedure for K-means Clustering</p> <p><u>Sung-Soo Kim</u>, Department of Information Statistics, Korea National Open University, Seoul, S. KOREA sskim@know.ac.kr</p> <p>27C. Machine Learning Methods for Hyperspectral Image Classification and Progress in the Insurance and Food Production Industries</p>	<p>Indonesia Room</p>
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	<p>Davood Shahsavani, School of Mathematics, Shahrood University of Technology, IRAN dshahsavani@shahroodut.ac.ir</p> <p>27D. A Computational Method for Ordinal Probit Regression based on Polar Metropolis <u>Chaianun Tharasook</u>, Department of Statistics, Chulalongkorn University, Bangkok, THAILAND purplebear.cavigon@gmail.com</p>	
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Tuesday June 19 3:00 pm – 3:20 pm	BREAK	
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PARALLEL SESSIONS

Tuesday June 19 3:20 pm – 5:00 pm	<p>SESSION 28 (INVITED): USING STATISTICAL ENGINEERING TO ADDRESS LARGE, UNSTRUCTURED PROBLEMS Organizer: <u>Roger Hoerl</u>, GE Global Research, USA roger.hoerl@ge.com Chair: <u>William Q. Meeker</u>, Iowa State University, USA wqmeeker@iastate.edu</p> <p>28A: The Next Frontier in Business and Industrial Statistics: Attacking Large, Complex, Unstructured Problems <u>Roger Hoerl</u>, GE Global Research, USA roger.hoerl@ge.com</p> <p>28B: Strategies for Diagnostic Quality Problem Solving <u>Jeroen de Mast</u>, Institute for Business and Industrial Statistics, University of Amsterdam, NETHERLANDS J.deMast@uva.nl</p> <p>28C: Industrial and Statistical Challenges in Continuous Improvement and Optimization of a Complex Chemical Process <u>Roelof Coetzer</u>, Sasol Technology Research and Development, Sasolburg South Africa, SOUTH AFRICA roelof.coetzer@sasol.com</p>	Myanmar Room
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Tuesday June 19 3:20 pm – 5:00 pm	<p>SESSION 29 (INVITED): TIME SERIES APPLICATIONS IN BUSINESS – BEFORE, AFTER AND NOW (IISA Session) Organizer: <u>Chaitra Nagaraja</u>, Fordham University, USA cnagaraja@fordham.edu Chair: <u>Nalini Ravishanker</u>, University of Connecticut, USA nalini.ravishanker@gmail.com</p> <p>29A: Modeling and Forecasting High-Frequency Stock Volatility</p>	Philipines Room
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	<p><u>Jonathan R. Stroud</u>, The George Washington University, USA stroud@gwu.edu</p> <p>29B: Short-term Forecasting of Demand for Electricity in the Smart Grid <u>Jonathan Hosking</u>, IBM T.J. Watson Research Center, IBM Research Division, USA hosking@us.ibm.com</p> <p>29C. House Price Indices <u>Chaitra H. Nagaraja</u>, Fordham Business Schools, Department of Management Systems, USA cnagaraja@fordham.edu</p>	
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<p>Tuesday June 19 3:20 pm – 5:00 pm</p>	<p>SESSION 30 (INVITED): STATISTICAL MODELS FOR TRANSPORTATION AND LOGISTICS Organizer: <u>Francesco Mola</u>, University of Cagliari, ITALY mola@unica.it Chair: <u>Vincenzo Esposito Vinzi</u>, ESSEC Business School, Paris, FRANCE vinzi@essec.edu</p> <p>30A: Exploratory Data Analysis for Forecasting Arrivals in a Transshipment Container Terminal <u>Paolo Fadda</u> (fadda@unica.it), CRIMM, University of Cagliari, ITALY; <u>Gianfranco Fancello</u> CRIMM, University of Cagliari, ITALY; <u>Francesco Mola</u>, Department of Economic and Business Sciences, University of Cagliari, ITALY; and <u>Claudia Pani</u> CRIMM, University of Cagliari, ITALY</p> <p>30B: Extracting Information in a Transshipment Container Terminal Data Set: an Interaction between Graphical Tools and Statistical Models <u>Luca Frigau</u> (frigau@unica.it) and <u>Claudia Pani</u>, University of Cagliari, ITALY</p> <p>30C: Innovative Model for Analyzing Logistic Networks <u>Agostino G. Bruzzone</u> (agostino@itim.unige.it), MISS DIPTM Università di Genova, Italy; <u>M.A. Piera</u>, Universidad Autonoma de Barcelona, SPAIN; and <u>F.Madeo</u> Simulation Team, University of Genova, ITALY</p>	<p>Brunei Room</p>
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<p>Tuesday June 19 3:20 pm – 5:00 pm</p>	<p>SESSION 31 (INVITED): COPULA MODELING Organizer: <u>Seksan Kiatsupaibul</u>, Chulalongkorn University, THAILAND seksan@acc.chula.ac.th Chair: <u>Anthony Hayter</u>, University of Denver, USA Anthony.Hayter@du.edu</p>	<p>Malaysia Room</p>
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	<p>31A: Copulas and Measures of Dependence <u>Songkiat Sumetkijakan</u>, Department of Mathematics and Computer Science, Chulalongkorn University, Bangkok, THAILAND songkiat.weng@gmail.com</p> <p>31B: Simulation with Known Copula Function <u>Seksan Kiatsupaibul</u>, Department of Statistics, Chulalongkorn University, Bangkok, THAILAND seksan@acc.chula.ac.th</p> <p>31C: A Test for the Covariance Matrix in High-Dimensional Data <u>Samruam Chongcharoen</u>, Department of Statistic, School of Applied Statistics, National Institute of Development Administration, Bangkok, THAILAND samruam@as.nida.ac.th</p>	
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<p>Tuesday June 19 3:20 pm – 5:00 pm</p>	<p>SESSION 32 (CONTRIBUTED): TIME SERIES ANALYSIS Chair: <u>Kanlaya Vanichbuncha</u>, Chulalongkorn University, Bangkok, THAILAND Kanlaya.V@acc.chula.ac.th</p> <p>32A. A Multivariate Approach to Generate Coincident and Leading Indicators for Mexican Economy: Transitory and Permanent Components <u>Francisco Corona</u>, Research Center in Mathematics, Monterrey, MEXICO fcoronav@gmail.com</p> <p>32B. Second-order Least-squares Estimation for Linear Regression with AR(1): Theoretical and Simulation Results <u>Dedi Rosadi</u>, Department of Mathematics, Gadjah Mada University, Yogyakarta, INDONESIA dedirosadi@gadjahmada.edu</p> <p>32C. On EWMA Procedure for an Exponential First Order Moving Average Model <u>Wannaporn Suriyakit</u>, Department of Applied Statistics, King Mongkut's University of Technology, Bangkok, THAILAND suriyakit@gmail.com</p> <p>32D. Bayesian Analysis of Random Coefficient Autoregressive (RCA) model with Autocorrelated Errors <u>Autcha Araveeporn</u>, Department of Applied Statistics, King Mongkut's Institute of Technology Ladkrabang, Bangkok, THAILAND kaautcha@hotmail.com</p>	<p>Indonesia Room</p>
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<p>Tuesday June 19 Evening</p>	<p>CONFERENCE DINNER (PAID EVENT)</p>	<p>Meet by Hotel Pier at 6:00 pm</p>
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WEDNESDAY JUNE 20, 2012

PARALLEL SESSIONS

<p>Wednesday June 20 9:00 am – 10:10 am</p>	<p>SESSION 33 (INVITED): MODELING AND INFERENCE Organizer: <u>Vijay Nair</u>, University of Michigan, Ann Arbor, USA Chair: <u>Geoff McLachlan</u>, University of Queensland, AUSTRALIA g.mclachlan@uq.edu.au</p> <p>33A: Component-Based Approaches to Structural Equation Models: Methodological Issues and Empirical Performances <u>Vincenzo Esposito Vinzi</u>, ESSEC Business School, FRANCE vinzi@essec.edu</p> <p>33B: On the Consistency of Estimators in Censored Normal Regression Models with Measurement Error on the Dependent Variable <u>Jean-Pierre Ottoy</u> and Peter Pipelers, Ghent University, Ghent, BELGIUM JeanPierre.Otttoy@UGent.be</p>	<p>Myanmar Room</p>
<p>Wednesday June 20 9:00 am – 10:10 am</p>	<p>SESSION 34 (INVITED): APPLICATIONS IN RISK AND MEDICINE Organizer: <u>David Banks</u>, Duke University, USA Chair: <u>Roger Hoerl</u>, GE Global Research, USA roger.hoerl@ge.com</p> <p>34A: Statistical Issues in the Assessment of Risk and Benefits of Alternative Treatment Modalities <u>Demissie Alemayehu</u>, Pfizer and Columbia University, New York, USA alem@stat.columbia.edu</p> <p>34B: Understanding Diffusion of Innovative Treatments for Kidney Cancer Using Trees and Forests <u>Mousumi Banerjee</u>, University of Michigan, USA mousumib@umich.edu</p>	<p>Philippines Room</p>
<p>Wednesday June 20 9:00 am – 10:10 am</p>	<p>SESSION 35 (INVITED): CLUSTERING AND APPLICATIONS Organizer: <u>Vijay Nair</u>, University of Michigan, Ann Arbor, USA, Chair: <u>Jonathan R. Stroud</u>, George Washington University, USA stroud@gwu.edu</p> <p>35A: Co-clustering Spatial Data Using a Generalized Linear Mixed Model <u>Daniel R. Jeske</u>, Department of Statistics, University of California – Riverside, USA daniel.jeske@ucr.edu</p> <p>35B: Clustering for Large Data Sets: Computation and Visualization</p>	<p>Brunei Room</p>

	Yoshiro Yamamoto, Tokai University, Japan yama@tokai-u.jp	
Wednesday June 20 9:00 am – 10:10 am	<p>SESSION 36 (INVITED): MODELING AND SELECTION FOR BUSINESS PROBLEMS</p> <p>Organizer: <u>Anthony Hayter</u>, University of Denver, USA Anthonyt.Hayter@du.edu</p> <p>Chair: <u>Seksan Kiatsupaibul</u>, Chulalongkorn University, THAILAND seksan@acc.chula.ac.th</p> <p>36A: Item Response Modeling with Management Applications <u>Akihito Kamata</u>, University of Oregon, USA akamata@gmail.com</p> <p>36B: Dimensional Reduction for Latent Scores Modeling using Recursive Integration and Applications to Credit Risk Rating Models <u>Seksan Kiatsupaibul</u>, Chulalongkorn University, Bangkok, THAILAND and <u>Anthony Hayter</u>, University of Denver, USA Anthonyt.Hayter@du.edu</p>	Malaysia Room
Wednesday June 20 9:00 am – 10:10 am	<p>SESSION 37 (INVITED): PROCESS MONITORING</p> <p>Organizer: <u>David Banks</u>, Duke University, USA Chair: <u>Kaibo Wang</u>, Tsinghua University, Beijing, P. R. CHINA kbwang@tsinghua.edu.cn</p> <p>37A: Process Monitoring Based on Empirical Likelihood <u>Asokan Mulayath Variyath</u>, Dept. of Mathematics and Statistics, Memorial University of Newfoundland St. John's, CANADA, isiasokan@yahoo.com</p> <p>37B: Properties of the Hotelling's T^2 Chart with Supplementary Run Rules Using Markov Chains <u>Nicolás Ballarini</u>, Universidad de Nacional de Rosario, ARGENTINA nicoballarini@gmail.com</p>	Indonesia Room
Wednesday June 20 10:10 am – 10:30 am	BREAK	

PARALLEL SESSIONS

<p>Wednesday June 20 10:30 am – 12:10 pm</p>	<p>SESSION 38 (INVITED): ENERGY STATISTICS Organizer: <u>Pilar Munoz</u>, Technical University of Catalonia, Barcelona, SPAIN pilar.munyo@upc.edu Chair: <u>Graciela González Farías</u>, Centro de Investigación en Matemáticas, MEXICO gmfarías@gmail.com</p> <p>38A: Forecasting Wind Power by Means of Markov Switching Models <u>M. Pilar Muñoz</u> and <u>Josep Anton Sánchez</u>, Technical University of Catalonia, Barcelona, SPAIN pilar.munyo@upc.edu</p> <p>38B: Decomposing a Vector of Series: Application to the Extraction of Common and Specific Unobserved Components in Liberalized Power Markets <u>Carolina García-Martos</u>, <u>Julio Rodríguez</u>, and <u>María Jesús Sánchez</u>, Universidad Politecnica de Madrid, Madrid, SPAIN garcia.martos@upm.es</p> <p>38C: Uncertainty Assessments of a Daily Electricity System Demand Estimation Model <u>Cha Chi Fan</u>, US Energy Information Administration. Washington DC, USA ChaChi.Fan@eia.gov</p>	<p>Myanmar Room</p>
<p>Wednesday June 20 10:30 am – 12:10 pm</p>	<p>SESSION 39 (INVITED): APPLICATIONS OF MIXTURE MODELS Organizer: <u>Geoff McLachlan</u>, University of Queensland, AUSTRALIA g.mclachlan@uq.edu.au Chair: <u>Heping Zhang</u>, Yale University, USA heping.zhang@yale.edu</p> <p>39A: Some Extensions of Normal Mixtures Models with Examples <u>Geoff McLachlan</u>, Department of Mathematics, University of Queensland, AUSTRALIA g.mclachlan@uq.edu.au</p> <p>39B: Software for the Bayesian analysis of Mixtures with applications in Business and Statistics <u>Christopher Strickland</u>, Queensland University of Technology, AUSTRALIA christopher.strickland@qut.edu.au</p> <p>39C: Using Mixtures to Model Non-Gaussian Errors in Multivariate Linear Regression <u>Giuliano Galimberti</u>, Department of Statistical Sciences, University of Bologna, ITALY giuliano.galimberti@unibo.it</p>	<p>Philipines Room</p>

<p>Wednesday June 20 10:30 am – 12:10 pm</p>	<p>SESSION 40 (INVITED): DESIGN AND ANALYSIS OF COMPUTER EXPERIMENTS</p> <p>Organizer: <u>Roshan Vengazhiyil</u>, Georgia Institute of Technology, USA roshan@isye.gatech.edu Chair: <u>Werner Mueller</u>, Johannes Kepler Universität Linz, AUSTRIA Werner.Mueller@jku.at</p> <p>40A: Non-stationary Dynamic Emulation for the Australian Water Balance Model <u>Ben Haaland</u>, National University of Singapore, SINGAPORE benjamin.haaland@duke-nus.edu.sg</p> <p>40B: Engineering-Driven Statistical Adjustment and Calibration <u>Roshan Vengazhiyil</u>, Georgia Institute of Technology, USA roshan@isye.gatech.edu</p>	<p>Brunei Room</p>
<p>Wednesday June 20 10:30 am – 12:10 pm</p>	<p>SESSION 41(INVITED): APPLICATIONS IN BUSINESS</p> <p>Organizer: <u>Kanlaya Vanichbuncha</u>, Chulalongkorn University, Bangkok, THAILAND Kanlaya.V@acc.chula.ac.th Chair: <u>P.G. Sankaran</u>, Cochin University of Science and Technology, INDIA, sankaranpg@yahoo.com</p> <p>41A: The Strictly Non-nested Model Selection of Binary Logistic Regression Model Using Receiver Operating Characteristic Curve as Selection Criterion <u>Supol Durongwatana</u>, Department of Statistics, Faculty of Commerce and Accountancy, Chulalongkorn University, THAILAND Supol@acc.chula.ac.th</p> <p>41B: Ruin Probability-Based Initial Capital of the Discrete-Time Surplus Process in Insurance under Reinsurance as a Control Parameter <u>Pairote Sattayatham</u>, School of Mathematics, Suranaree University of Technology, Nakhon-Ratchasima, THAILAND pairote@sut.ac.th</p> <p>41C: Ridge Estimators in Binary Logistic Regression with Skewed Independent Variables <u>Kanlaya Vanichbuncha</u>, Department of Statistics, Faculty of Commerce and Accountancy, Chulalongkorn University, Bangkok, THAILAND kanlaya.v@acc.chula.ac.th</p>	<p>Malaysia Room</p>
<p>Wednesday June 20 10:30 am – 12:10 pm</p>	<p>SESSION 42 (CONTRIBUTED): STATISTICS IN BUSIENSS AND INDUSTRY</p> <p>Chair: <u>Qiang Huang</u>, University of Southern California, USA qiang.huang@usc.edu</p>	<p>Indonesia Room</p>

	<p>42A. Persistence Process of Being a Good Customer <u>Khreshna Syuhada</u> and <u>Yohan Dharmawan</u>, Institut Teknologi Bandung, INDONESIA khreshna@math.itb.ac.id</p> <p>42B. A Comparison on Ranking and Value at Risk between the Hazard Probit Model and the Hazard Probit with Gaussian Copula Model <u>Sarunya Somsong</u>, Department of Statistics, Chulalongkorn University, THAILAND sarunya.ss@hotmail.com</p> <p>42C. Data Analytics for Teenage-Customer Management in Online Shopping Mall <u>Sookyeong Lee</u> Korea University, S. KOREA maybe8318@korea.ac.kr</p> <p>42D. Development of a Drug Expiration Prediction Model <u>Natchalee Srimaneekarn</u>, Department of Statistics, Chulalongkorn University, THAILAND snatchalee@yahoo.com</p> <p>42E. Predicting Golden Glove Awards in Baseball in Korea <u>Min Seok Kim</u>, Korea University, S. KOREA alstjr6684@naver.com</p>	
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Wednesday June 20 12:10 pm – 1:30 pm	LUNCH	
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PARALLEL SESSIONS

Wednesday June 20 1:30 pm – 3:10 pm	<p>SESSION 43 (INVITED): RECURRENT EVENTS AND SYSTEM RELIABILITY Organizer: <u>Ananda Sen</u>, University of Michigan, Ann Arbor, USA Chair: <u>Chaitra H. Nagaraja</u>, Fordham Business School, USA cnagaraja@fordham.edu</p> <p>43A: Additive Hazards Models for Gap Time Data with Multiple Causes <u>P.G. Sankaran</u>, Department of Statistics, Cochin University of Science and Technology, Cochin-682022, Kerala, INDIA sankaranpg@yahoo.com</p> <p>43B: Analysis of Competing Risks with Recurrent Events Data <u>Anupap Somboonsawatdee</u>, Chulalongkorn University, Bangkok, THAILAND anupap@acc.chula.ac.th</p>	Myanmar Room
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	<p>43C: An Extension of the Freund's Bivariate Distribution to Model Load Sharing Systems</p> <p><u>Asha Gopalakrishnan</u>, Department of Statistics, University of Science & Technology, Cochin, Kerala, INDIA asha.gopalakrishnan@gmail.com</p>	
<p>Wednesday June 20 1:30 pm – 3:10 pm</p>	<p>SESSION 44: A PANEL DISCUSSION WITH JOURNAL EDITORS</p> <p>Organizer/Chair: <u>Paulo Canas Rodrigues</u>, Nova University of Lisbon, PORTUGAL paulocanas@gmail.com</p> <p>Panel: <u>David Banks</u>, Former Editor of <i>Journal of the American Statistical Association</i>, Duke University, USA banks@stat.duke.edu <u>William Q. Meeker</u>, Former Editor of <i>Technometrics</i>, Iowa State University, USA wqmeeker@iastate.edu <u>Fabrizio Ruggeri</u>, Editor-in-Chief of <i>Applied Stochastic Models for Business and Industry</i>, CNR IMATI, Milano, ITALY fabrizio@mi.imati.cnr.it</p>	<p>Philippines Room</p>
<p>Wednesday June 20 1:30 pm – 3:10 pm</p>	<p>SESSION 45 (INVITED): RECENT ADVANCES IN DESIGN AND ANALYSIS OF EXPERIMENTS</p> <p>Organizer: <u>Peter Z. G. Qian</u>, University of Wisconsin-Madison, USA peterq@stat.wisc.edu Chair: <u>Ben Haaland</u>, National University of Singapore, SINGAPORE benjamin.haaland@duke-nus.edu.sg</p> <p>45A: Sequential Design for Estimating Quantiles from Computer Codes <u>C. Devon Lin</u>, Queen's University, Kingston, Ontario, CANADA cdlin@mast.queensu.ca</p> <p>45B: Probability-Based Latin Hypercube Designs for Irregular Regions <u>Ying Hung</u>, Rutgers University, USA yhung@stat.rutgers.edu</p> <p>45C: The Stepwise Response Refinement Screener and Its Applications to Analysis of Factorial Designs <u>Frederick K. H. Phoa</u>, Institute of Statistical Science, Academia Sinica, Taipei, TAIWAN fredphoa@stat.sinica.edu.tw</p>	<p>Brunei Room</p>
<p>Wednesday June 20 1:30 pm – 3:10 pm</p>	<p>SESSION 46 (INVITED): DATA MINING APPLICATIONS</p> <p>Organizer: <u>Yap Bee Wah</u>, Faculty of Computer and Mathematical Sciences, Univesiti Teknologi Mara, MALAYSIA</p>	<p>Malaysia Room</p>

	<p>beewah@tmsk.uitm.edu.my Chair: <u>Nuttanan Wichitaksorn</u>, University of Sydney Business School, Sydney, AUSTRALIA nwic9927@uni.sydney.edu.au</p> <p>46A: Data Mining Applications in Business and Finance <u>Yap Bee Wah</u>, Faculty of Computer and Mathematical Sciences, Universiti Teknologi Mara, MALAYSIA beewah@tmsk.uitm.edu.my</p> <p>46B: Data Mining Application in Identifying Customer's Multiple Needs from Credit Card Usage <u>Seohoon Jin</u>, Korea University, KOREA seohoon@korea.ac.kr</p> <p>46C: Techniques for Mining of High-speed Data Stream for Intelligent Applications <u>Simon Fong</u>, University of Macau, MACAU ccfong@umac.mo</p>	
<p>Wednesday June 20 1:30 pm – 3:10 pm</p>	<p>SESSION 47 (INVITED): VARIATION MODELING AND MONITORING OF COMPLEX MANUFACTURING PROCESSES Organizer: <u>Judy Jin</u>, University of Michigan, Ann Arbor, USA jhjin@umich.edu Chair: <u>Philippe Castagliola</u>, Université de Nantes & IRCCyN UMR CNRS 6597, Carquefou, Cedex, FRANCE philippe.castagliola@univ-nantes.fr</p> <p>47A: Modeling of Nanomanufacturing Processes for Quality Control: A Review <u>Qiang Huang</u>, Department of Industrial and Systems Engineering, University of Southern California, USA qiang.huang@usc.edu</p> <p>47B: Bayesian Approaches for Quality Profile Monitoring in Low-E Glass Manufacturing <u>Li Zeng</u>, Department of Industrial and Manufacturing Systems Engineering, University of Texas at Arlington, USA lzeng@uta.edu</p> <p>47C: Analysis of Multichannel Nonlinear Tonnage Profiles Using Uncorrelated Multilinear Principal Component Analysis <u>Jionghua (Judy) Jin</u>, Department of Industrial and Operations Engineering, University of Michigan, Ann Arbor, USA jhjin@umich.edu</p>	<p>Indonesia Room</p>
<p>Wednesday June 20 3:10 pm – 3:30 pm</p>	<p>BREAK</p>	

Wednesday June 20 3:30 pm – 4:20 pm	SESSION 48 – PLENARY III Organizer/Chair: <u>David Banks</u> , Duke University, USA Statistical Challenges in Display Advertising <u>Deepak Agarwal</u> , Director and Head, LinkedIn Relevance Science Labs, USA dipu1025@yahoo.com	Ballroom 1
Wednesday June 20 4:20 pm – 4:30 pm	y-BIS BEST PAPER AWARD CLOSING REMARKS	Ballroom 1

WOKSHOP
THURSDAY JUNE 21, 2012
SHANGRI LA HOTEL, BANGKOK

9:00 am – 3:00 pm	ANALYSIS OF COMPLEX SURVEY DATA Instructor: <u>Steve Heeringa</u> , University of Michigan, USA	The Garden Gallery
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