

## IEEM2014 Technical Program

Time	Wednesday, 10 December 2014							
09:00 - 10:30	<b>Opening &amp; Keynote I</b>							
10:30 - 11:00	Coffee/Tea Break							
11:00 - 12:30	<b>Keynote II &amp; III</b>							
12:30 - 13:30	Lunch - Lagoon 3 (Level 15)							
<b>Rooms →</b>	Casablanca	Caymans 1	Caymans 2	Caymans 3	Caymans 4	Jamaica	Kaywest	Cancun
13:30 - 15:00	Decision Analysis & Methods I	Operations Research I	Quality Control & Management I	Supply Chain Management I	Technology & Knowledge Management I	Healthcare Systems & Management	Systems Modeling & Simulation I	Human Factors I
15:00 - 15:30	Coffee/Tea Break							
<b>Rooms →</b>	Casablanca	Caymans 1	Caymans 2	Caymans 3	Caymans 4	Jamaica	Kaywest	Cancun
15:30 - 17:00	Decision Analysis & Methods II	Operations Research II	Service Innovation & Management I	Manufacturing Systems I	Information Processing & Engineering I	Intelligent Systems I	Project Management I	Production Planning & Control I
Time	Thursday, 11 December 2014							
<b>Rooms →</b>	Casablanca	Caymans 1	Caymans 2	Caymans 3	Caymans 4	Jamaica	Kaywest	Cancun
09:00 - 10:30	Panel Sessions	Operations Research III	Quality Control & Management IV	Supply Chain Management II	Information Processing & Engineering II	All Day Poster Display	E-Business & E-Commerce	Safety, Security & Risk Management
10:30 - 11:00	Coffee/Tea Break							
<b>Rooms →</b>	Casablanca	Caymans 1	Caymans 2	Caymans 3	Caymans 4	Jamaica	Kaywest	Cancun
11:00 - 12:30	Decision Analysis & Methods III	Operations Research IV	Service Innovation & Management II	Supply Chain Management III	Technology & Knowledge Management II	All Day Poster Display (cont'd)	Reliability & Maintenance Engineering	Production Planning & Control II
12:30 - 13:30	Lunch - Lagoon 3 (Level 15)							
<b>Rooms →</b>	Casablanca	Caymans 1	Caymans 2	Caymans 3	Caymans 4	Jamaica	Kaywest	Cancun
13:30 - 15:00	Decision Analysis & Methods IV	Global Manufacturing & Engineering	Quality Control & Management II	Manufacturing Systems II	Information Processing & Engineering III	All Day Poster Display (cont'd)	Project Management II	Human Factors II
15:00 - 15:30	Coffee/Tea Break							
<b>Rooms →</b>	Casablanca	Caymans 1	Caymans 2	Caymans 3	Caymans 4	Jamaica	Kaywest	Cancun
15:30 - 17:00	Decision Analysis & Methods V	Operations Research V	Quality Control & Management III	Manufacturing Systems III	Technology & Knowledge Management III	All Day Poster Display (cont'd)	Systems Modeling & Simulation II	Intelligent Systems II

## Oral Presentations

<b>Day 1 - Wednesday, December 10, 2014 / Room Casablanca / 13:30 - 15:00</b>			
<b>Decision Analysis &amp; Methods I / Chairs: Shin-Guang Chen, Shino Iwami</b>			
1	IEEM14-P-0038	Simultaneous Consideration of Remanufactured and New Products in Optimal Product Line Design	Ridvan AYDIN, C.K. KWONG, Ping JI
2	IEEM14-P-0045	The Optimal Ordering Quantity with Uncertain Food's Safety Environment	Shu-Yen HSU, Tyrone T. LIN
3	IEEM14-P-0095	Reduced Recursive Inclusion-exclusion Principle for the Probability of Union Events	Shin-Guang CHEN
4	IEEM14-P-0098	A Bi-level Algorithm for Product Line Design and Pricing	Shuli WU, Songlin CHEN
5	IEEM14-P-0135	An Optimal Electricity Consumption Decision with a Limited Carbon Emission Concept	Tyrone T. LIN, Hui-Chen LAN
6	IEEM14-P-0186	An Integrated Data Envelopment Analysis (DEA) and Hedge Accounting Approach for Risk Management Efficiency Measurement: Evidence From Derivative Market in Asia-pacific Banks	Shahsuzan ZAKARIA, Sardar M. N. ISLAM
<b>Day 1 - Wednesday, December 10, 2014 / Room Casablanca / 15:30 - 17:00</b>			
<b>Decision Analysis &amp; Methods II / Chairs: Yves De Smet, Saku Mäkinen</b>			
1	IEEM14-P-0161	A Fuzzy Linguistic Representation Model for Decision Making Under Uncertainty	Wen-Tao GUO, Van-Nam HUYNH
2	IEEM14-P-0237	Post Optimality Analysis of Pareto Optimal Set Through Weights Robustness	Maria KALININA, David SUNDGREN
3	IEEM14-P-0232	Adapting the ISO31000:2009 Enterprise Risk Management Framework Using the Six Sigma Approach	Bennie Seck-Yong CHOO, Jenson Chong-Leng GOH
4	IEEM14-P-0348	A Framework to Identify Sustainability Indicators for Product Design	Sam Yeon KIM, Seung Ki MOON, Hyung Sool OH, Taezoon PARK, HaeJin CHOI, Hungsun SON
5	IEEM14-P-0448	An Interactive Bi-criteria Heuristic Algorithm for the Coherent System Assembly	Abdel-Aziz M. MOHAMED
6	IEEM14-P-0386	Optimal Trial Number for D-optimal Designs Based on Efficiency-cost Ratio Analysis	XiuTing LIU, Sen LIN, Jun YANG
7	IEEM14-P-0063	Swarm Based Mean-variance Mapping Optimization (MVMO <sup>As</sup> ) for Economic Dispatch Problem with Valve - Point Effects	Khoa TRUONG, Pandian VASANT, Balbir Singh MAHINDER SINGH, Dieu VO
<b>Day 1 - Wednesday, December 10, 2014 / Room Caymans 1 / 13:30 - 15:00</b>			
<b>Operations Research I / Chairs: Yuliang Su, Earl-Juei Wang</b>			
1	IEEM14-P-0277	A Multicriteria Decision Model for Technology Readiness Assessment for Energy Based on PROMETHEE Method with Surrogate Weights	Adiel ALMEIDA, Danielle C MORAIS, Luciana ALENCAR, Tharcylla CLEMENTE, Eduardo KRYM, C. Z. BARBOZA
2	IEEM14-P-0280	An Imperialist Competitive Algorithm for the Job Shop Scheduling Problems	Hamed PIROOZFARD, Kuan Yew WONG
3	IEEM14-P-0321	Impact Evaluation of MGNREGA Using Data Envelopment Analysis	Devaraj HANUMAPPA, Parthasarathy RAMACHANDRAN, T. G. SITHARAM
4	IEEM14-P-0336	Critical Literature Review on Maturity Models for Business Process Excellence	Saja ALBLIWI, Jiju ANTONY, Norin ARSHED

5	IEEM14-P-0408	A Modified Genetic Algorithm for Precedence Constrained Operation Sequencing Problem in Process Planning	Yuliang SU, Xuening CHU, Dongping CHEN, Dexin CHU
6	IEEM14-P-0159	Building Master Surgery Schedules with Leveled Bed Occupancy and Nurse Workloads	Zakaria ABDELRA SOL, Nermine HARRAZ, Amr B. ELTAWIL
<b>Day 1 - Wednesday, December 10, 2014 / Room Caymans 1 / 15:30 - 17:00</b>			
<b>Operations Research II / Chairs: Amr Eltawil, Shinji Inoue</b>			
1	IEEM14-P-0206	Resolution of Resource Conflicts in the CCPM Framework Using a Local Search Method	Hiroki KOGA, Hiroyuki GOTO, Eishi CHIBA
2	IEEM14-P-0215	A Heuristic Algorithm for the Prize Collecting Steiner Tree Problem	Yuki HOSOKAWA, Eishi CHIBA
3	IEEM14-P-0235	3D Loading Problem Formulation Using Mixed Integer Nonlinear Programming	Mojahid SAEED OSMAN, Bala RAM
4	IEEM14-P-0149	A Hybrid PSO-TS Approach for Proportionate Multiprocessor Open Shop Scheduling	Tamer ABDELMAGUID
5	IEEM14-P-0382	An Improved Approach for the Quay Crane Assignment Problem with Limited Availability of Internal Trucks in Container Terminal	A. KARAM, Amr B. ELTAWIL, Nermine HARRAZ
6	IEEM14-P-0329	Asset Integrity of Deepwater Petroleum Production Facilities	Mayang KUSUMAWARDHANI, Tore MARKESET
7	IEEM14-P-0481	Standardization Programs in the Industrial Plant Business: Best Practices and Lessons Learned	Michael GEPP, Jan VOLLMAR, Thomas SCHAEFFLER
<b>Day 1 - Wednesday, December 10, 2014 / Room Caymans 2 / 13:30 - 15:00</b>			
<b>Quality Control &amp; Management I / Chairs: Imad Alsyouf, Yoshinobu Tamura</b>			
1	IEEM14-P-0074	Modeling Autocorrelated Process Control with Industrial Application	Siaw Li LEE, Maman Abdurachman DJAUHARI, Ismail MOHAMAD
2	IEEM14-P-0113	Estimation of Population Generalized Variance: Application in Service Industry	Revathi SAGADAVAN, Maman Abdurachman DJAUHARI, Ismail MOHAMAD
3	IEEM14-P-0131	Factors Affecting Quality in a Manufacturing Environment for a Non-repairable Product	Rene LOMBARD, Corro VAN WEVEREN, Kai-Ying CHAN
4	IEEM14-P-0140	Improving Quality of Operations via Industry-specific Empowerment Antecedents: A Study of the Oil and Gas Industry	Ngozi ONYEMEH, Chan Wai LEE
5	IEEM14-P-0198	Application of Six Sigma in Oil and Gas Industry: Converting Operation Data into Business Value for Process Prediction and Quality Control	Wai Kit CHENG, Amir Farid AZMAN, Mohamad Hisham HAMDAN, Rachel FRAN MANSA
6	IEEM14-P-0300	Mishandled Baggage Problem: Causes and Improvement Suggestions	Imad ALSYOUF, Fatima HUMAID, Shaima AL KAMALI
<b>Day 1 - Wednesday, December 10, 2014 / Room Caymans 2 / 15:30 - 17:00</b>			
<b>Service Innovation &amp; Management I / Chairs: Vipul Jain, Chien-Liang Kuo</b>			
1	IEEM14-P-0033	Priority Investment Components of Emotional Intelligence Effective on Marketing with AHP Method	Parissa TAVAKOLI-TARGHI, Yousef GHOLIPOUR KANANI
2	IEEM14-P-0191	Workforce Planning for Global Network Delivery Model	Sumit RAUT, Kishore PADMANABHAN, Muralidharan SOMASUNDHANRAM, Natarajan VIJAYARANGAN

3	IEEM14-P-0383	CSF in Product Innovation Process: A Comparative Study of Three Malaysian Manufacturing SMEs	Noor Hidayah ABU, Baba MD DEROS, Mohd Fitri MANSOR
4	IEEM14-P-0462	Supporting the Cross-disciplinary Development of Product-service Systems Through Model Transformations	Thomas WOLFENSTETTER, Konstantin KERNSCHMIDT, Christopher MÜNZBERG, Daniel KAMMERL, Suparna GOSWAMI, Udo LINDEMANN, Birgit VOGEL-HEUSER, Helmut KRCMAR
5	IEEM14-P-0541	Structural Investigation of a Healthcare Value Chain: A Social Network Analysis Approach	Vipul JAIN, Sumit SAKHUJA
6	IEEM14-P-0410	Investigating the Effects of Project Scales on the Patterns and Performance of Successfully Funded, Technology-oriented Innovative Crowdfunding Projects	Chien-Liang KUO, C.J.H. LIN, S.X.S. HUANG, Yu-Chen LIN
<b>Day 1 - Wednesday, December 10, 2014 / Room Caymans 3 / 13:30 - 15:00</b>			
<b>Supply Chain Management I / Chairs: R. Kant, Roger Jiao</b>			
1	IEEM14-P-0010	Supplier Selection Activities in the Service Sector: A Case Study in Nigeria	Dotun ADEBANJO, Matthew TICKLE, Frank OJADI, Petros IEROMONACHOU, Tritos LAOSIRIHONGTHONG, Roula MICHAELIDES
2	IEEM14-P-0049	Managing Supply Disruption in a Three-tier Supply Chain with Multiple Suppliers and Retailers	Sanjoy Kumar PAUL, Ruhul SARKER, Daryl ESSAM
3	IEEM14-P-0332	Collaborative Inventory Distribution Management in a Supply Chain: A Simulation Perspective	Joby GEORGE, Nimmy J.S., V. Madhusudan Pillai
4	IEEM14-P-0105	In-house Capacity Investment and Outsourcing Under Competition	Tarun JAIN, Jishnu HAZRA
5	IEEM14-P-0322	Optimization of Multi-commodities Consumer Supply Chains Part II: Simulation Modeling	Zeinab Haji HAJIABOLHASANI, Romeo M. MARIAN, Lee LUONG
6	IEEM14-P-0424	Identifying Critical Success Factors for Green Supply Chain Management Implementation Using Fuzzy DEMATEL Method	Rakesh Kumar MALVIYA, Ravi KANT
7	IEEM14-P-0106	Warehouse Storage Assignment: The Case Study of a Plastic Bag Manufacturer	Chompoonoot KASEMSET, J. SUDPHAN
<b>Day 1 - Wednesday, December 10, 2014 / Room Caymans 3 / 15:30 - 17:00</b>			
<b>Manufacturing Systems I / Chairs: Rob Dekkers, Kanagi Kanapathy</b>			
1	IEEM14-P-0093	Comparing Malaysian and Scottish Firms on Practices for Strategic Capability Management	Rob DEKKERS, Kanagi KANAPATHY
2	IEEM14-P-0349	The Moderation Effect of the Cultural Dimension "Individualism/Collectivism" on Toyota Way Deployment - A Global Study on Toyota Facilities	Nihal JAYAMAHA, Jurgen WAGNER, Nigel GRIGG
3	IEEM14-P-0357	Assessment of the Teamwork Organization in a Production Plant of a Major German Automobile Manufacturer	Robert STRANZENBACH, Philipp M. PRZYBYSZ, Susanne MÜTZE-NIEWÖHNER, Stephan SCHEEL, Christopher M. SCHLICK
4	IEEM14-P-0056	Modeling Cognitive Network of a Physical System Using Design Knowledge Base	Shah LIMON, Om Prakash YADAV, Bimal NEPAL
5	IEEM14-P-0094	Theoretical considerations for Make-or-buy Decisions During 'Product Design and Engineering': Three Indian Case Studies	Rob DEKKERS

6	IEEM14-P-0471	Lean Transformation Efforts of the Wood Industry in Virginia	Omar ESPINOZA, Urs BUEHLMANN, C FRICKE
7	IEEM14-P-0395	Optimal Control Synthesis for a Flexible Manufacturing System Based on Minimal Cuts	Sadok REZIG, Zied ACHOUR, Nidhal REZG, Mohamed-Ali KAMMOUN
<b>Day 1 - Wednesday, December 10, 2014 / Room Caymans 4 / 13:30 - 15:00</b>			
<b>Technology &amp; Knowledge Management I / Chairs: Atsushi Aoyama, Ching Chieh Kiu</b>			
1	IEEM14-P-0499	A Behavioral Loyalty Model of Portable Computers	Mohammad Reza SHAHRIARI, Ali HAJIHA, Sara DEGHAN
2	IEEM14-P-0037	Regionalization of Engineering - Framework and Scenarios	Thomas SCHAEFFLER, Rudolf KODES, Michael GEPP, Nadja HOBACH, Arndt LÜDER
3	IEEM14-P-0127	The Marketing Strategy for Successful Product Development Performance in Iranian Nanotechnology-based Enterprises	Naser KHOSRAVI, Mohsen SADEGHI
4	IEEM14-P-0242	Forecasting of Diffusion Pattern: A Case Example of OLED Technology	Pawat TANSURAT, Nathasit GERDSRI
5	IEEM14-P-0441	Improving Management Practices Upon Organizational Characteristics - An Analysis of Japanese Manufacturing Subsidiaries in Vietnam	Nguyen Thi Duc NGUYEN, Atsushi AOYAMA
6	IEEM14-P-0546	Identifying Knowledge Components in Software Requirement Elicitation	Laleh TAHERI, Noraini CHE PA, Rusli ABDULLAH, Salfarina ABDULLAH, Mohammad Yaser SHAFAZAND
<b>Day 1 - Wednesday, December 10, 2014 / Room Caymans 4 / 15:30 - 17:00</b>			
<b>Information Processing &amp; Engineering I / Chairs: Md. Mamun Habib, Olaf Sauer</b>			
1	IEEM14-P-0044	A Bayesian Accelerated Degradation Studies on Nitrile Rubber O-ring	Lizhi WANG, Xiaohong WANG, Yuxiang LI, Wenhui FAN
2	IEEM14-P-0231	Interview Study: Decisions and Decision Criteria for Development in Industry	Danilo Marcello SCHMIDT, Sebastian SCHENKL, Eduard MUNKHART, Susanne NILSSON, Markus MÖRTL
3	IEEM14-P-0269	Theoretical Analysis of RFID Security Protocols	Azam ZAVVARI, Mohammad Tariqul ISLAM, Masoud SHAKIBA, Mandeep Jit SINGH
4	IEEM14-P-0270	Analyzing and Visualizing News Trends Over Time	Lubaba Farin TANISHA, Bishwajit Banik PATHIK, Manzur H. KHAN, Md. Mamun HABIB
5	IEEM14-P-0287	A Novel Tool for Reducing Time and Cost at Software Test Estimation: An Use Cases and Functions Based Approach	Shaiful ISLAM, Bishwajit Banik PATHIK, Manzur H. KHAN, Md. Mamun HABIB
6	IEEM14-P-0366	Self-focusing Appearance in Ultra-compact 3x3 Multimode Interference Coupler Based on Silicon on Insulator	Mehdi TAJALDINI, Mohd Zubir MAT JAFRI
<b>Day 1 - Wednesday, December 10, 2014 / Room Jamaica / 13:30 - 15:00</b>			
<b>Healthcare Systems &amp; Management / Chairs: Juha Puustjärvi, Kai-Way Li</b>			
1	IEEM14-P-0027	Healthcare Platforming for Healthcare Service Development in Hospitals	Linda L. ZHANG, Michel ALDANONDO, Arun KUMAR
2	IEEM14-P-0103	Design of a Dynamic Bi-objective Relief Routing Network in the Earthquake Response Phase	Shadab SHISHEHGAR, Reza TAVAKKOLI-MOGHADDAM, Ali SIADAT, Mehrdad MOHAMMADI

3	IEEM14-P-0337	Towards an Instrumented Tissue Expander	Annette BÖHMER, Alexander ZÖLLNER, Ellen KUHL, Udo LINDEMANN
4	IEEM14-P-0361	Health System Design: A Financial Perspective	Hans-Jakob LUETHI, C. MANDL, Philippe WIDMER
5	IEEM14-P-0459	An Employee Assistance Program by Analyzing the Correlation Between Work Stress and Dreams for Chinese Employees	Kuei-Chen CHIU, Tsai-Wei HUANG, Shulan HSIEH
6	IEEM14-P-0529	A Novel Simulated Metamorphosis Algorithm for Homecare Nurse Scheduling	Michael MUTINGI, Charles MBOHWA
7	IEEM14-P-0046	Education Management in Healthcare Communities	Juha PUUSTJÄRVI, Leena PUUSTJÄRVI
<b>Day 1 - Wednesday, December 10, 2014 / Room Jamaica / 15:30 - 17:00</b>			
<b>Intelligent Systems I / Chairs: Gamini Wijayarathna, Dianne Lee-Mei Cheong</b>			
1	IEEM14-P-0101	Study on the Production Forecasting Based on Grey Neural Network Model in Automotive Industry	Bin LIN, Seng Fat WONG, Weng lan HO
2	IEEM14-P-0204	The Need for Integrating Statistical Process Control and Automatic Process Control	Abdul-Wahid A. SAIF
3	IEEM14-P-0208	Modeling Novices in Decision-problem Structuring for Collective Intelligence	Dianne Lee-Mei CHEONG
4	IEEM14-P-0252	Survey on Tools and Systems to Generate ER Diagram from System Requirement Specification	Wasana C. UDUWELA, Gamini WIJAYARATHNA
5	IEEM14-P-0439	A Methodology for Fuzzy Multi-criteria Decision-making Approach for Scheduling Problems in Robotic Flexible Assembly Cells	Khalid ABD, Kazem ABHARY, Romeo M. MARIAN
6	IEEM14-P-0440	Application of a Fuzzy Multi-criteria Decision-making Approach for Dynamic Scheduling in Robotic Flexible Assembly Cells	Khalid ABD, Kazem ABHARY, Romeo M. MARIAN
7	IEEM14-P-0498	Overtime Capacity Expansion in Order Acceptance with Node Based Estimation of Distribution Algorithms	Watcharee WATTANAPORNPROM, Tieke LI, Warin WATTANAPORNPROM, Prabhas CHONGSTITVATANA
<b>Day 1 - Wednesday, December 10, 2014 / Room Kaywest / 13:30 - 15:00</b>			
<b>Systems Modeling &amp; Simulation I / Chairs: Norani Nordin, Kiyoshi Sawada</b>			
1	IEEM14-P-0081	Dynamic Modeling and Analysis of LM6000 Gas-turbine Synchronous Generator	Roozbeh ESHRAGHNIA, Randy J. KLEEN
2	IEEM14-P-0275	Simulation Based Lean Six Sigma Approach to Reduce Patients Waiting Time in an Outpatient Eye Clinic	Weidong LIN, Xianfei JIN, Sie Yong CHIA
3	IEEM14-P-0338	Combining Set-based Concurrent Engineering and Function- Means Modelling to Manage Platform-based Product Family Design	Dag RAUDBERGET, Marcel MICHAELIS, Hans JOHANNESSON
4	IEEM14-P-0365	Simulation of New System Departure Terminal Soekarno-Hatta International Airport	Dimas NOVRISAL, Nuraida WAHYUNI, Nadia HAMANI, Abderrahman ELMHAMED, Tresna SOEMARDI
5	IEEM14-P-0480	Numerical Simulation of Stress Distribution of a Femur-Menisci-Tibia Bone During Normal Standing, Normal Walking, and Standing with a Cane	Angkhana PROMMARAT, Athassawat KAMMANEE, Thitikom PUAPANSAWAT, Farida CHAMCHOD

6	IEEM14-P-0489	Statistical Analysis and a Social Network Model Based on the SEIQR Framework	Benjamas CHIMMALEE, Wannika SAWANGTHONG, Rawee SUWANDECHOCHAI, Farida CHAMCHOD
7	IEEM14-P-0511	Placing a Liaison with Long Communication Lengths to the Same Level in an Organization Structure	Kiyoshi SAWADA
<b>Day 1 - Wednesday, December 10, 2014 / Room Kaywest / 15:30 - 17:00</b>			
<b>Project Management I / Chairs: Linda Zhang, Ramanathan Chidambaram</b>			
1	IEEM14-P-0111	Setting Up An Intellectual Properties Intermediary Service: DMAIC Way	Kim SLOW
2	IEEM14-P-0126	Modular, Building Blocks - Based Approach for Information and Documentation Management in Planning Projects	Daniel OEHME, Ralph RIEDEL, Egon MÜLLER
3	IEEM14-P-0130	Establishing the Development Mechanism of ERP Report	Te- King CHIEN, Hou-Yi LIN
4	IEEM14-P-0449	Multi-objective Optimization and Risk Assessment in System Engineering Project Planning by Ant Colony Algorithm	Pablo BAROSO, Thierry COUDERT, Eric VILLENEUVE, Laurent GENESTE
5	IEEM14-P-0173	Analyzing Implementation of Lean Production Control with the Viable System Model	Fatos ELEZI, Michael Timo SCHMIDT, Iris TOMMELEIN, Udo LINDEMANN
6	IEEM14-P-0297	Development of QuickKaizen <sup>TM</sup> Technique for Productivity Execution Management for Singapore SMEs	Chin Wei GAN, Ming Hon TOH, Roland LIM, Bin MA, Puay Siew TAN, Amrik Singh BHULLAR
7	IEEM14-P-0394	The Resource-constrained Project Scheduling Problem with Stochastic Activity Durations	Stefan CREEMERS
8	IEEM14-P-0032	A Comparative Study Among Stakeholders on Causes of Time Delay in Malaysian Multiple Design and Build Projects	Ramanathan CHIDAMBARAM, Narayanan SAMBU POTTY
<b>Day 1 - Wednesday, December 10, 2014 / Room Cancun / 13:30 - 15:00</b>			
<b>Human Factors I / Chairs: Peter Kuhlman, Myung Hwan Yun</b>			
1	IEEM14-P-0035	Enhancing Work System Design and Improvement by Further Developments of Value Stream Mapping	Peter KUHLANG, Thomas EDTMAYR, Alexander SUNK, Thomas MÜHLBRADT
2	IEEM14-P-0050	Influence of Human Factors Over Idea Generation: a Qualitative and Quantitative Analysis of an Enterprise of the Graphic Sector in Medellin	Manuela ESCOBAR SIERRA, Luz Dinora VERA ACEVEDO
3	IEEM14-P-0183	The Effect of Font Size on Typing Performance and Sitting Posture	Haruetai LOHASIRIWAT, Temsin WATTANAPANICH, Panmeq SAECHAN
4	IEEM14-P-0188	Improvement of Workstation by Providing Ergonomically Designed Chair and Table for the Water Hyacinth Weaving Department of the Villar Foundation	Devie Ann GAMATA, Ralph OROZCO, J. K. C. LASERNA, J. A. MEDINA, Sheily MENDOZA, R. J. U. GARCIA
5	IEEM14-P-0255	The Effect of Psychosocial Stress on Trapezius Muscle Activity During Computer Work: A Review	Mohd Firdaus MOHD TAIB, Myung Hwan YUN
6	IEEM14-P-0147	Parametric Modeling of 3D Human Faces Using Anthropometric Data	Chun-Yang TSENG, I-Jan WANG, Chih-Hsing CHU
7	IEEM14-P-0542	Developing Transfer of Learning Through Reflective Framing and Design Thinking: An Engineering-games Design Approach	Chien-Sing LEE, K. Daniel WONG

<b>Day 1 - Wednesday, December 10, 2014 / Room Cancun / 15:30 - 17:00</b>			
<b>Production Planning &amp; Control I / Chairs: Philipp Baumann, Norbert Trautmann</b>			
1	IEEM14-P-0061	Process Family Planning: An Optimization-based Approach	Roel LEUS, Linda L. ZHANG, Daniel KOWALCZYK
2	IEEM14-P-0109	Efficient Symmetry-breaking Formulations for Grouping Customer Orders in a Printing Shop	Philipp BAUMANN, Norbert TRAUTMANN
3	IEEM14-P-0240	Continuous Precise Workload Control Method	Hakan AKILLIOGLU, Joao-Dias FERREIRA, Antonio MAFFEI, Pedro NEVES, Mauro ONORI
4	IEEM14-P-0285	Economic Level of Detail for Assembly Planning	Achim KAMPKER, Peter BURGGRÄF, Yvonne BÄUMERS
5	IEEM14-P-0317	Scheduling a Dynamic Flowshop to Minimize the Mean Absolute Deviation from Distinct Due Dates	Ahmed W. EL-BOURI
6	IEEM14-P-0400	A Hybrid EOQ and Fuzzy Model to Minimize the Material Inventory in Ready Mixed Concrete Plants	Mehdi RAVANSHADNIA, Milad GHANBARI
7	IEEM14-P-0020	A Structural Equation Model Linking Forecasting, Planning and Controlling with SME Performance	Biju PUTHANVEETIL, Bhasi MARATH
<b>Day 2 - Thursday, December 11, 2014 / Room Casablanca / 11:00 - 12:30</b>			
<b>Decision Analysis &amp; Methods III / Chairs: Rajasvaran Logeswaran, Elita Amrina</b>			
1	IEEM14-P-0296	Design for Open Innovation (DfOI) - Product Structure Planning for Open Innovation Toolkits	Maik HOLLE, Udo LINDEMANN
2	IEEM14-P-0388	Effects of Different Classifiers in Detecting Infectious Regions in Chest Radiographs	Wan Siti Halimatul Munirah WAN AHMAD, Rajasvaran LOGESWARAN, Mohammad Faizal AHMAD FAUZI, Wan Mimi Diyana WAN ZAKI
3	IEEM14-P-0433	Parallelization of Industrial Process Control Program Based on the Technique of Differential Evolution Using Multi-threading	Rajeev AGRAWAL, Abhinav GOYAL, Debjani SAMBASIVAM, Arya K BHATTACHARYA
4	IEEM14-P-0526	Weibull Component Reliability Evaluation With Masked Data	Jieqiong MIAO, Xiaogang LI, Renxi LUO
5	IEEM14-P-0201	An Extension of PROMETHEE to Divisive Hierarchical Multicriteria Clustering	Yves DE SMET
6	IEEM14-P-0176	Effectiveness Assessment for Waste Management Decision-support in the Arctic Drilling	Yonas Zewdu AYELE, Abbas BARABADI, Javad BARABADY
<b>Day 2 - Thursday, December 11, 2014 / Room Casablanca / 13:30 - 15:00</b>			
<b>Decision Analysis &amp; Methods IV / Chairs: Rudra P Pradhan, Hossam Ismail</b>			
1	IEEM14-P-0069	Real-time Decision Support System for Resource Optimization & Management of Threat Evaluation and Weapon Assignment Engineering in Air Defence	Afshan NASEEM, Shoab Ahmed KHAN, Asad WAQAR MALIK
2	IEEM14-P-0202	An Approach to Analyse Key Renewable Energy Technologies: A Case from Sri Lanka	Amila WITHANAARACHCHI, Julian NANAYAKKARA, Chamli PUSHPAKUMARA
3	IEEM14-P-0304	Bibliometric Methodology to Detect Collaborative and Competitive Countries	Shino IWAMI, Francisco TACOA, Junichiro MORI, Yuya KAJIKAWA, Ichiro SAKATA
4	IEEM14-P-0316	Fuzzy Decision Making in Shape Feature Design for Product Development	Ching-Hu YANG, Chung-Shing WANG, Chin-Fu CHEN, P.Y. LIN, Chung-Chuan WANG
5	IEEM14-P-0359	An ANP-based Multi Criteria Decision Making Model for Supplier Selection	Hisham ALIDRISI



6	IEEM14-P-0425	Multi-granules Evaluation Model Through Fuzzy Random Regression Analysis	Nureize ARBAIY
<b>Day 2 - Thursday, December 11, 2014 / Room Casablanca / 15:30 - 17:00</b>			
<b>Decision Analysis &amp; Methods V / Chairs: Ali Siadat, Abdel-Aziz M. Mohamed</b>			
1	IEEM14-P-0080	A Case Study on Mining Social Media Data	Hing Kai CHAN, Ewelina LACKA, Rachel W. Y. YEE, Ming K. LIM
2	IEEM14-P-0320	Understanding Sustainability in Healthcare Systems: A Systems Thinking Perspective	Michael MUTINGI, Charles MBOHWA
3	IEEM14-P-0455	Mitigating the Effort for Engineering Changes in Product Development Using a Fuzzy Expert System	Tobias KINDSMÜLLER, Florian G. H BEHNCKE, Benjamin STAHL, Klaus DIEPOLD, Martina WICKEL, Daniel KAMMERL, Konstantin KERNSCHMIDT
4	IEEM14-P-0463	Information Communications Technology (ICT) Infrastructure Impact on Stock Market- Growth Nexus: The Panel VAR Model	Rudra P PRADHAN
5	IEEM14-P-0468	A Mathematical Formulation for Low Carbon Electricity Planning in the Presence of Technology and Policy Interventions	Amrutha APPIYAH, Muthu MATHIRAJAN, Balachandra PATIL
6	IEEM14-P-0476	Five Factors That Make Pervasive Business Intelligence a Winning Wager	Riccardo COGNINI, Flavio CORRADINI, Alberto POLZONETTI, Barbara RE
7	IEEM14-P-0385	A New Hesitant Fuzzy Analytical Hierarchy Process Method for Decision-making Problems Under Uncertainty	S. M. MOUSAVI, Hossein GITINAVARD, Ali SIADAT
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 1 / 09:00 - 10:30</b>			
<b>Operations Research III / Chairs: Konstantinos Kirytopoulos, Shieu-Hong Lin</b>			
1	IEEM14-P-0209	A New DEA Model for Six Sigma Project Selecting: Case Study on Esfahan Province Electricity Distribution Co (EPEDC)	Ali YOUSEFI, Amir Reza AQAMOHAMMADI
2	IEEM14-P-0216	Vehicle Routing Problem for Hazardous Materials Transportation: An Overview.	Khaoula HAMDY, Nacima LABADIE, Alice YALAOUI
3	IEEM14-P-0222	Electricity System Sustainability Transitions : An Integrated Methodology	Tarun SHARMA, Patil BALACHANDRA
4	IEEM14-P-0245	Multi-project Flexible Resource Profiles Project Scheduling with Ant Colony Optimization	Elena ROKOU, Manos DERMITZAKIS, Konstantinos KIRYTOPOULOS
5	IEEM14-P-0256	An Efficient Solution Framework for a Large Scale Delivery Problem	Suyan TENG, Edmund CHAN, Changjun YANG, Mingyen YU, Siow Hwei TAN
6	IEEM14-P-0501	Second Order-response Surface Model for the Automated Parameter Tuning Problem	Aldy GUNAWAN, Hoong Chuin LAU
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 1 / 11:00 - 12:30</b>			
<b>Operations Research IV / Chairs: Tatsushi Nishi, Sha'ri Mohd Yusof</b>			
1	IEEM14-P-0089	A Bootstrap Data Envelopment Analysis (BDEA) Approach in Islamic Banking Sector: A Method to Strengthen Efficiency Measurement	Shahsuzan ZAKARIA, Mad Ithnin SALLEH, Shamsuriati HASAN
2	IEEM14-P-0092	A Rule-based Heuristic Procedure for the Container Pre-marshalling Problem	Mohamed GHEITH, Amr B. ELTAWIL, Nermine HARRAZ

3	IEEM14-P-0096	Operational Excellence Frameworks - Case Studies and Applicability to SMEs in Singapore	Amrik Singh BHULLAR, Chin Wei GAN, Andy ANG, Bin MA, Roland LIM, Ming Hon TOH
4	IEEM14-P-0168	A Mathematical Model and a GRASP Metaheuristic for a Faculty-course Assignment Problem for a University in Saudi Arabia	Khaoula HAMDJ
5	IEEM14-P-0180	Multi-objective Vehicle Refueling Planning Using Mixed Integer Programming	Shieu-Hong LIN
6	IEEM14-P-0343	Solving the Toll Optimization Problem by a Heuristic Algorithm Based Upon Sensitivity Analysis	Vyacheslav KALASHNIKOV, Nataliya KALASHNYKOVA, Roberto Carlos HERRERA-MALDONADO
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 1 / 13:30 - 15:00</b>			
<b>Global Manufacturing &amp; Engineering / Chairs: Xun Xu, Roger Jiao</b>			
1	IEEM14-P-0026	Drivers and Barriers in Sustainable Manufacturing Implementation in Malaysian Manufacturing Firms	Norani NORDIN, Hasbullah ASHARI, Mohamad Ghozali HASSAN
2	IEEM14-P-0174	Choose Whom to Date Wisely: Explaining the Performance Variation in Strategic Alliances	Mait RUNGI, Valeria STULOVA
3	IEEM14-P-0306	Smart Factories in Industry 4.0: A Review of the Concept and of Energy Management Approached in Production Based on the Internet of Things Paradigm	Fadi SHROUF, Joaquin ORDIERES, Giovanni MIRAGLIOTTA
4	IEEM14-P-0535	Application of Lean Manufacturing in Mass Production System: A Case Study in Indian Manufacturing Unit	Mahadevan KISHORE KUMAR, A. JOHN RAJAN, R. KAJA BANTHA NAVAS, S. SAHAYA RUBINSON
5	IEEM14-P-0371	Simultaneous Configuration of Product Families and Supply Chains for Mass Customization Using Leader-follower Game Theory	Dong YANG, Roger J. JIAO
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 1 / 15:30 - 17:00</b>			
<b>Operations Research V / Chairs: Vyacheslav Kalashnikov, Stefan Creemers</b>			
1	IEEM14-P-0124	Management of the Care Activities in Home Health Care Services: the Routing and Scheduling of Caregivers Level	Rabeh REDJEM, Eric MARCON, Xiaolan XIE
2	IEEM14-P-0005	Optimal Cost Drivers in Activity Based Costing Based on Artificial Neural Network	Noppadol AMDEE, Kawin SONTHIPERMPOON, Thongchai ARUNCHAI, Phanboonmee WARAWUT
3	IEEM14-P-0356	Icing and Performance of Offshore Production Facilities in Cold Climate Region	Rezgar ZAKI, Abbas BARABADI
4	IEEM14-P-0265	Petri Net Representation for 0-1 Integer Programming Problems	Akito KODAMA, Tatsushi NISHI
5	IEEM14-P-0108	Algorithms for the Min-max Regret Generalized Assignment Problem with Interval Data	Wei WU, Manuel IORI, Silvano MARTELLO, Mutsunori YAGIURA
6	IEEM14-P-0299	Network Optimization for Capturing and Transporting CO <sub>2</sub>	Ho-Yoeng YUN, Lianxi BAI, Kyung-Sup KIM, Suk-Jae JEONG
7	IEEM14-P-0428	Laboratory Measurement: Chlorophyll-a Concentration Measurement with Acetone Method Using Spectrophotometer	Fairooz JOHAN, Mohd Zubir MAT JAFRI, Hwee San LIM, Wan Maznah WAN OMAR

<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 2 / 09:00 - 10:30</b>			
<b>Quality Control &amp; Management IV / Chairs: David Tchoffa, Diego Tlapa</b>			
1	IEEM14-P-0389	Comparative Analysis of Taguchi's Crossed Array Approach vs Combined Array Approach to Robust Parameter Design: A Study Based on Apparel Industry	Pramila GAMAGE, Nihal JAYAMAHA, Nigel GRIGG, Manjula NANAYAKKARA
2	IEEM14-P-0435	Total Quality Management in Product Life Cycle	Dinh Son NGUYEN
3	IEEM14-P-0456	Fuzzy Mean and Range Control Charts for Monitoring Fuzzy Quality Characteristics: A Case Study in Food Industries Using Chicken Nugget	S. Mojtaba ZABIHINPOUR, M. K. A. ARIFFIN, S. H. TANG, A. S. AZFANIZAM, Omid BOYER
4	IEEM14-P-0494	One Hotelling T2 Chart Based on Transformed Data for Simultaneous Monitoring the Frequency and Magnitude of an Event	Yuan CHENG, Amitava MUKHERJEE
5	IEEM14-P-0537	Quality Operating of Information Systems and Service Level Agreement	David TCHOFFA, El Mouloudi DAFAOUI, Abderrahman ELMHAMED, Luminita DUTA
6	IEEM14-P-0396	Drilling Waste Minimization in the Barents Sea	Rezgar ZAKI, Abbas BARABADI
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 2 / 11:00 - 12:30</b>			
<b>Service Innovation &amp; Management II / Chairs: Carman Ka Man Lee, Ahmed Abdelgawad</b>			
1	IEEM14-P-0076	Influence of Task Characteristics on Team Performance	Philipp M. PRZYBYSZ, Sönke DUCKWITZ, Christopher M. SCHLICK
2	IEEM14-P-0087	Multi-screen Services Adoption and Use-diffusion: The BEST Model Perspective	Hung Chih LAI, Yao Cheng YU, Yi-Min TUAN, Hui Shan KUO
3	IEEM14-P-0107	Effects of the Electromobility on Rescue Service Provisions	Francoise MEYER, Alexander RANNACHER, Sönke DUCKWITZ
4	IEEM14-P-0421	TRIZ Based Approach to Improve Public Bus Service Quality	Christina WIRAWAN, Astrid AYU
5	IEEM14-P-0146	Design and Development Waste Management System in Hong Kong	Carman Ka Man LEE, Trevor WU
6	IEEM14-P-0200	Maximizing Service Value: A Case Study of Online Hotel Reservation	Napaporn RIANTHONG, Aussadavut DUMRONGSIRI, Youji KOHDA
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 2 / 13:30 - 15:00</b>			
<b>Quality Control &amp; Management II / Chairs: Dinh Son Nguyen, Sofiene Dellagi</b>			
1	IEEM14-P-0341	Driving Driving 'Soft' Factors for Sustaining Quality Excellence: Perceptions from Quality Managers	Mehran DOULAT ABADI, Sha'ri MOHD YUSOF
2	IEEM14-P-0447	Robust On-line Monitoring for Univariate Processes Based on Two Sample Goodness-of-fit Test	Chen ZHANG, Nan CHEN
3	IEEM14-P-0472	Critical Success Factors of Six Sigma: An Overview	Diego TLAPA, Jorge LIMON, Yolanda BÁEZ, Delia VALLES-ROSALES
4	IEEM14-P-0119	Human Values for Implementation of Total Quality Management: Proposed Conceptual Framework of an Automated Tool	Muhammad Noman MALIK, Sha'ri MOHD YUSOF
5	IEEM14-P-0169	Factors that Impact Project Quality at a Nuclear Power Plant in South Africa	Stanley FORE, W. GALETTA
6	IEEM14-P-0194	Improving Overall Equipment Effectiveness (OEE) Through the Six Sigma Methodology in a Semiconductor Firm: A Case Study	Kam-Choi NG, Kuan Eng CHONG, Gerald Guan Gan GOH

<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 2 / 15:30 - 17:00</b>			
<b>Quality Control &amp; Management III / Chairs: Pei-Lee Teh, Kuan Eng Chong</b>			
1	IEEM14-P-0155	Optimal Integrated Maintenance Policy Based on Quality Deterioration	Meriem KOUKI, Sofiene DELLAGI, Zied ACHOUR, Walid ERRAY
2	IEEM14-P-0219	A Study on the Optimization of Wafer Pre-treatment Conditions for Thin Film Stability Monitor	Taicheng Kevin GONG, Yanju Lisa YU, Yan Kaily CAO, Xueliang Ruben ZHANG, Kaiyuan Kevin CHANG, Weiting Kary CHIEN
3	IEEM14-P-0484	Monitoring Correlation Structures Stability in Foreign Exchange Market	Siew Lee GAN, Maman Abdurachman DJAUHARI, Zuhaimy ISMAIL
4	IEEM14-P-0251	Control of pH Neutralization System Using Nonlinear Model Predictive Control with I-controller	Ayman HERMANSSON, S SYAFIIE
5	IEEM14-P-0360	An Efficient Discrete Particle Swarm Optimization for Solving Multi-mode Resource-constrained Project Scheduling Problems	Jianshuang CUI, Liruoyang YU
6	IEEM14-P-0358	Reliability Analysis Based on Three-dimensional Stochastic Differential Equation for Big Data on Cloud Computing	Yoshinobu TAMURA, Kenta MIYAOKA, Shigeru YAMADA
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 3 / 09:00 - 10:30</b>			
<b>Supply Chain Management II / Chairs: Nunzia Carbonara, Egon Mueller</b>			
1	IEEM14-P-0328	Sourcing Decision with Correlated Supplier Disruption: An MV Framework	Pritee RAY, Mamata JENAMANI
2	IEEM14-P-0491	A Brief Review on Information Sharing within Supply Chains	Farnoush FARAJPOUR, Mohammad Taghi TAGHAVIFARD
3	IEEM14-P-0090	Ant Colony Optimization for One-to-Many Network Inventory Routing Problem	Lily WONG, Noor Hasnah MOIN
4	IEEM14-P-0401	Analysis of Quantity Discounts for Multi-period Production Planning for Single Supplier and Retailer Under Uncertain Demands	Okihiro YOSHIDA, Tatsushi NISHI, Guoqing ZHANG
5	IEEM14-P-0482	The Cluster Policies to Nation Competitiveness Based on Business Ecosystem Perspective - Case Study of Taiwanese Smart Phone Industry	Yan-Ru LI
6	IEEM14-P-0507	Mitigating Supply Chain Risk: A Real Options Approach	Nunzia CARBONARA, N. COSTANTINO, Roberta PELLEGRINO
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 3 / 11:00 - 12:30</b>			
<b>Supply Chain Management III / Chairs: Yan-Ru Li, Abdul Rahman Abdul Rahim</b>			
1	IEEM14-P-0102	SCM Trends and Challenges - Implications from a Cross-industry Analysis	Felix FRIEMANN, Markus GERSCHBERGER, Kathrin REITNER, Paul SCHÖNSLEBEN
2	IEEM14-P-0048	Vehicle Routing with Time Window for Regional Network Services - Practical Modelling Approach	Iman NIROOMAND, Amir H. KHATAIE, Masoud RAHIMINEZHAD GALANKASHI
3	IEEM14-P-0060	Development of a General Collaboration Model - Basis for the Establishment of a Collaboration Compass	Xiao-li CHEN, Antonia MAHLING, Ralph RIEDEL, Egon MÜLLER
4	IEEM14-P-0152	Solving Inventory Routing Problem with Backordering Using Artificial Bee Colony	Huda Zuhrah AB HALIM, Noor Hasnah MOIN
5	IEEM14-P-0281	Big Data Analytics for Supply Chain Management	Jens LEVELING, Matthias EDELBROCK, Boris OTTO

6	IEEM14-P-0315	Multi Objective Supply Chain Network Design Considering Customer Satisfaction	Mahdi BASHIRI, Hanieh KHORASANI, Mahdyyeh SHIRI
7	IEEM14-P-0244	Supply Chain Risk Management: A Method and Tool Contributing to the Operational Aspects	Elena ROKOU, Konstantinos KIRYTOPOULOS
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 3 / 13:30 - 15:00</b>			
<b>Manufacturing Systems II / Chairs: Urs Buehlmann, Bimal Nepal</b>			
1	IEEM14-P-0148	Joint Optimization of Production-maintenance Plans Based on Optimal Production Rates	Jeremie SCHUTZ
2	IEEM14-P-0172	A New Bi-objective Mathematical Model for Sustainable Dynamic Cellular Manufacturing Systems	Farzad NIAKAN, Armand BABOLI, Thierry MOYAU, Valerie BOTTA-GENOULAZ
3	IEEM14-P-0025	Optimization of Green Electrical Discharge Machining Using an Integrated Approach	JAGADISH, Amitava RAY
4	IEEM14-P-0160	A Conceptual Framework for the Performance Assessment of Lot Release Policies	Rashmi SINGH, Muthu MATHIRAJAN
5	IEEM14-P-0091	Applying Lean and TOC to Improvement Delivery Performance for Machine Tool Manufacturers	Chuang-Chun CHIOU, T.W. JHANG, Y. X. DENG, J.T. TSAI, C. PERNG
6	IEEM14-P-0473	Interactive Virtual Machining System Using Informative Data Structure and On-site Machine Tool Status	Aini Zuhra ABDUL KADIR, Xun XU
7	IEEM14-P-0158	A Simulation Based System for Manufacturing Process Optimisation	Hossam ISMAIL, Lina WANG, Jenny POOLTON
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 3 / 15:30 - 17:00</b>			
<b>Manufacturing Systems III / Chairs: Nihal Jayamaha, Chuang-Chun Chiou</b>			
1	IEEM14-P-0469	Multi-skeleton Model for Top-down Design of Complex Modular Products	Dexin CHU, Xuening CHU, guolin LV, Yuliang SU, Dongping CHEN
2	IEEM14-P-0122	Optimized Tool Path Planning in 5-Axis Flank Machining using Electromagnetism-like Algorithms	Chi Lung KUO, Chih-Hsing CHU, Ying LI, Xinyu LI, Liang GAO
3	IEEM14-P-0134	Signal Propagation Model Calibration Under Metal Noise Factor for Indoor Localization by Using RFID	Seng Fat WONG, Xue NI
4	IEEM14-P-0308	Experiential Learning: Lean Team at Virginia Tech	Urs BUEHLMANN, Omar ESPINOZA
5	IEEM14-P-0143	The Backward Growing Method for Constructing 3D Process Models in the Machining Process Planning	Jinfeng LIU, Xiaojun LIU, Yalong CHENG, Zhonghua NI
6	IEEM14-P-0236	Proposal of a Decision Making Model to Select the Best Fitting Cost Estimation Technique in an ETO-MC Environment	Aldo DUCHI, Golboo POURABDOLLAHIAN, Davide SILLI, Matteo CIOFFI, Marco TAISCH
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 4 / 09:00 - 10:30</b>			
<b>Information Processing &amp; Engineering II / Chairs: SC Johnson Lim, Abdul-Wahid Saif</b>			
1	IEEM14-P-0284	Development of a Methodology for Cost-oriented Ramp-up Design	Achim KAMPKER, Christoph DEUTSKENS, Andreas MAUE
2	IEEM14-P-0248	Discovering Product Feature and Affective Associations Through Collaborative Tagging	S. C. Johnson LIM, Suhaili JAWARIS
3	IEEM14-P-0319	Construction of an Interactive Behavioral and Feature Structure Model for Facebook	Tsung-Yi CHEN, Meng-Che TSAI, Yuh-Min CHEN
4	IEEM14-P-0427	SWOT Analysis of NPTEL Knowledge Portal	Kalyan Kumar BHATTACHARJEE

5	IEEM14-P-0533	Life Cycle Inventory Analysis and Equivalent Carbon Dioxide Emissions Calculation of the Mining and Ore Concentration Processes of PGM at The Anglo American Platinum Ltd, South Africa	Junior MABIZA, Charles MBOHWA, Michael MUTINGI
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 4 / 11:00 - 12:30</b>			
<b>Technology &amp; Knowledge Management II / Chairs: Michael Gepp, Seung Ki Moon</b>			
1	IEEM14-P-0205	Methodology for Resource Allocation in the Tool and Die Industry	Günther SCHUH, Martin PITSCH, Thomas KÜHN, Advan BEGOVIC
2	IEEM14-P-0213	Measuring the Quality of Cooperation in Interdisciplinary Research Clusters	Stefan SCHRÖDER, Markus KOWALSKI, Claudia JOOSS, R. VOSEN, Anja RICHERT, Sabina JESCHKE
3	IEEM14-P-0260	Do We Miscount Patent Citations? An Empirical Study on the Impact of Overlooking the Citations to a Patent's Pre-grant Publication	Chung-Huei KUAN, Hsiang-Jui CHENG
4	IEEM14-P-0263	The Contribution of Technology to Improving Meanings: The Quantitative Analysis of Meanings	Satoru GOTO, Shuichi ISHIDA
5	IEEM14-P-0346	Advance of Research on Technology Acceptance	Ruiping YANG, Liyan ZHOU, Xinxin HOU, Yiming XIANG
6	IEEM14-P-0312	Readiness of Malaysian E-Commerce Companies to Harness Web2.0's Competitive Advantage: An Engineering Management Approach	Ching Chieh KIU, Chien-Sing LEE
7	IEEM14-P-0345	Educational Leadership: The Effects of Leadership in Students Educational Performance in Engineering Institutes	Subhashini GOPAL KRISHNAN, Vinesh THIRUCHELVAM
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 4 / 13:30 - 15:00</b>			
<b>Information Processing &amp; Engineering III / Chairs: Seng Fat Wong, Chih-Hsing Chu</b>			
1	IEEM14-P-0075	An Efficient Method for Checking Overlaps and Construction Algorithms for the Bitmap Shape Packing Problem	Sho FUKATSU, Yannan HU, Hideki HASHIMOTO, Shinji IMAHORI, Mutsunori YAGIURA
2	IEEM14-P-0221	Managing Conflict in Distributed Projects	Ramin SHAHZADI, Mohsen SADEGHI, Asal AGHAZ
3	IEEM14-P-0241	Analysis of Scientific Research Structure in Singapore Using Bibliometrics and Network Analysis for Understanding Their Characteristics of R&D: A Case Study of Biomedical Field	Ken HAYASHIMA, Haruki SAWAMURA, Ichiro SAKATA, Yoichiro MATSUMOTO, Hajime SASAKI
4	IEEM14-P-0495	Modelling Financial Flow of the Supply Chain	Mohammad Hossein JAHANGIRI, Franjo CECELJA
5	IEEM14-P-0453	Role of Walsh Codes and Pseudorandom Noise Sequences in CDMA	Puneet CHAWLA, Balwinder SINGH
6	IEEM14-P-0288	Learning from Past Changes - Towards a Learning-oriented Engineering Change Management	Christoph HOLLAUER, Martina WICKEL, Udo LINDEMANN
7	IEEM14-P-0028	A Study of Applying Severity-weighted Greedy Algorithm to Software Test Case Prioritization During Testing	Yen-Ching HSU, Kuan-Li PENG, Chin-Yu HUANG
<b>Day 2 - Thursday, December 11, 2014 / Room Caymans 4 / 15:30 - 17:00</b>			
<b>Technology &amp; Knowledge Management III / Chairs: Chung-Huei Kuan, Ralph Riedel</b>			
1	IEEM14-P-0239	Fasten Your Seatbelts, Turbulence Ahead: Environmental Turbulence as a Determinant of Absorptive Capacity	Valeria STULOVA, Mait RUNGI

2	IEEM14-P-0272	A Preliminary Survey on Modeling Customer Requirements from Product Reviews Under Preference Uncertainty	Anies ZAKARIA, S. C. Johnson LIM
3	IEEM14-P-0368	Hybrid Intelligent Patent Mapping for Offshore Wind Industry Analysis	Chin Yuan FAN, Shou Hao CHANG, P. S. FAN, L. F. KAO
4	IEEM14-P-0432	Users' Acceptance of IT and Its Impact on Knowledge Sharing: A Case in the South African Banking Industry	Abdulkadir Kolawole BELLO, Kai-Ying CHAN
5	IEEM14-P-0460	Interpretive Structural Model of Key Performance Indicators for Sustainable Manufacturing Evaluation in Cement Industry	Elita AMRINA, Annike LUTFIA VILSI
6	IEEM14-P-0431	What Innovation Managers Really Do - An Empirical Study About Tasks, Skills and Traits of Innovation Managers in Germany	Maximilian A. MAIER
<b>Day 2 - Thursday, December 11, 2014 / Room Kaywest / 09:00 - 10:30</b>			
<b>E-Business &amp; E-Commerce / Chairs: Jindong Li, Hing Kai Chan</b>			
1	IEEM14-P-0145	Adoption of Near Field Communication for Mobile Payment: Evidence from Macau	Kin Meng SAM, Chris CHATWIN, Jing Xin ZHANG
2	IEEM14-P-0262	The Implementation Strategy of Key Task for ERP Activities	Te- King CHIEN, Ming-Sian CHENG
3	IEEM14-P-0153	Consumer Attitudes Toward Online Video Advertising: An Empirical Study on YouTube as Platform	Keng-Chieh YANG, Conna YANG, Chia-Hui HUANG, Po-Hong SHIH, Su Yu Yang YANG
4	IEEM14-P-0497	The Role of Perceived Value on Customer E-shopping Intention Using Technology Acceptance Model, (TAM)	Ali HAJIHA, Mohammad Reza SHAHRIARI, Nayereh VAKILIAN
5	IEEM14-P-0518	Probation of the Private Enterprises' Informatization in Wenzhou	Jindong LI, Jixuan FENG
6	IEEM14-P-0402	Cloud Manufacturing for a Service-oriented Paradigm Shift	Yuqian LU, Xun XU
<b>Day 2 - Thursday, December 11, 2014 / Room Kaywest / 11:00 - 12:30</b>			
<b>Reliability &amp; Management Engineering / Chairs: David Valis, Sanjay Kumar Palei</b>			
1	IEEM14-P-0030	Software Hazard Rate Modeling with Multiple Change-Point Occurrences	Shinji INOUE, Shigeru YAMADA
2	IEEM14-P-0047	Reliable System Design Under Uncertainty	Mengqi LI, Minghong HAN, Jiaqi XU
3	IEEM14-P-0157	Integration of Failure Prediction Bayesian Networks for Complex Equipment System	Weitao SI, Zhiqiang CAI, Shudong SUN, Shubin SI
4	IEEM14-P-0085	Prediction of Vehicle further Operation and Fault Based on Tribo-diagnostic Data	David VALIS, Libor ZAK, J. CHALOUPKA
5	IEEM14-P-0084	Estimation of System Residual Useful Life Based on Selected Tribo Data	David VALIS, Ondrej POKORA
<b>Day 2 - Thursday, December 11, 2014 / Room Kaywest / 13:30 - 15:00</b>			
<b>Project Management II / Chairs: Thierry Coudert, Premaratne Samaranyake</b>			
1	IEEM14-P-0128	Knowledge Transfer in Project-based Organizations. A Conceptual Model for Investigating Knowledge Type, Transfer Mechanisms and Transfer Success	Corro VAN WAVEREN, Leon OERLEMANS, Marthinus PRETORIUS
2	IEEM14-P-0199	A Conceptual Multi-dimensional Evaluation Model for New Product Portfolio Management – Using Hybrid Fuzzy Model of AHP-DEA	Kiranmayi PULIPAKA, Muthu MATHIRAJAN
3	IEEM14-P-0477	A Recommendation on PLUS Highway Development: A Social Network Analysis Approach	Norhaidah MOHD ASRAH, Maman Abdurachman DJAUHARI

4	IEEM14-P-0082	Evaluating Risk Factors in the Operation of Virtual Teams in ICT Projects	Nikos RASSIAS, Konstantinos KIRYTOPOULOS
5	IEEM14-P-0292	Instructional Design for Online Course Delivery in Engineering Management: Synthesizing Learning Styles, Pedagogical Perspectives and Contingency Factors	Senevi KIRIDENA, Premaratne SAMARANAYAKE, David HASTIE
6	IEEM14-P-0054	Identifying Critical Project Management Techniques and Skills for Construction Professionals to Achieving Project Success	Jui-Sheng CHOU, Ngoc-Tri NGO
<b>Day 2 - Thursday, December 11, 2014 / Room Kaywest / 15:30 - 17:00</b>			
<b>Systems Modeling &amp; Simulation II / Chairs: Syafiie Syafiie, Aini Zuhra Abdul Kadir</b>			
1	IEEM14-P-0129	An Ising-based Approach to the Study of Inter-organizational Team Dynamics	Ilaria GIANNOCCARO, Ilario DE VINCENZO, Giuseppe CARBONE
2	IEEM14-P-0178	Individual Versus Integrated Simulation Techniques in Healthcare Applications	Mohammed ABDELGHANY, Amr B. ELTAWIL
3	IEEM14-P-0283	CFD Analysis of Chlorine Gas Dispersion In Indoor Storage: Temperatures with Wind Velocities Effect Studies	Mohsen SAFAKAR, S SYAFIIE, Robiah BT. YUNUS
4	IEEM14-P-0289	Depicting Product-service Systems in the Early Phase of the Product Development	Daniel KAMMERL, Martin ENSELEIT, Robert ORAWSKI, Danilo Marcello SCHMIDT, Markus MÖRTL
5	IEEM14-P-0353	No Clutch Fuzzy Logic-controlled Hybrid Transmission	Essam ESMAIL, Hamed HUSSAIN, Rahman HUSSAIN
6	IEEM14-P-0384	Fractional Order PI Controller for Wind Farm Supervision	Boualem BENLAHBIB, Nouredine BOUARROUDJ, Farid BOUCHAFAA, Bachir BATON
7	IEEM14-P-0545	Multi-objective Genetic Algorithm in Green Just-in-time Logistics	Ashkan MEMARI, Abdul Rahman ABDUL RAHIM, Robiah AHMAD
<b>Day 2 - Thursday, December 11, 2014 / Room Cancun / 09:00 - 10:30</b>			
<b>Safety, Security &amp; Risk Management / Chairs: Netai Chandra Karmakar, Elena Rokov</b>			
1	IEEM14-P-0452	A Taxonomy of Security and Privacy Requirements for the Internet of Things (IoT)	Israa ALQASSEM, Davor SVETINOVIC
2	IEEM14-P-0374	Friction Measurements on Floors Under Solid Contaminated Conditions	Kai-Way LI, T-Y PEI
3	IEEM14-P-0099	Understanding Hazards and Risks in Modern Sociotechnical Systems: Systemic Approach to Identify Human, Organizational and Technical Factors	Haftay Hailay ABRAHA, Jayantha P. LIYANAGE
4	IEEM14-P-0527	Effects of Demography and Occupational Traits on Consequence of Injury of Underground Coal Miners	Sanjay Kumar PALEI, Netai Chandra KARMAKAR, Rutwick S. M. REDDY
5	IEEM14-P-0246	Risk Analysis and Rescue Operation for Machine Roomless Lift: A Case Study	Choo Yong LEE, Chin Huat LIM
6	IEEM14-P-0258	Modeling of Tolerable Repair Time Without Affecting System Reliability	Aishwarya MISHRA, Pranab MURARI, Sanjay Kumar PALEI, Suprakash GUPTA



<b>Day 2 - Thursday, December 11, 2014 / Room Cancun / 11:00 - 12:30</b>			
<b>Production Planning &amp; Control II / Chairs: Ahmed El-Bouri, Bholanathsingh Surajbali</b>			
1	IEEM14-P-0295	Planning and Scheduling across the Supply Chain: Simulation-based Validation of the Unitary Structuring Technique	Premaratne SAMARANAYAKE, Senevi KIRIDENA, Dalin CAI
2	IEEM14-P-0196	Optimal Planning of Biodiesel Supply Chain Using a Linear Programming Model	Maryam VALIZADEH, Syafie SYAFIE, I.S. AHAMAD
3	IEEM14-P-0224	A Simple Multiple Objective Linear Programming Model on Customization Manufacturing for Metal Steel Making Effectiveness	Earl-Juei WANG, Chin-Shih TSOU
4	IEEM14-P-0404	Mixture of Two Different Scheduling Policies in a Class of Discrete Event Systems	Hiroyuki GOTO, Hajime YOKOYAMA
5	IEEM14-P-0436	A Cloud-based Approach for Collaboration of Serviced-enhanced Products	Bholanathsingh SURAJBALI, Adrian JUAN-VERDEJO, Holger BAER, Spiros ALEXAKIS, Gerald HÜBSCH, Markus BAUER
<b>Day 2 - Thursday, December 11, 2014 / Room Cancun / 13:30 - 15:00</b>			
<b>Human Factors II / Chairs: Perminderjit Singh, Chien-Sing Lee</b>			
1	IEEM14-P-0088	Selecting a Shift System Based on the Analytical Hierarchy Process	Alexander RANNACHER, Susanne MÜTZE-NIEWÖHNER, Christopher M. SCHLICK
2	IEEM14-P-0323	Differentiated Customer Needs' Analysis for User Experience	Danilo Marcello SCHMIDT, Josu URQUIDI GUERRERO, Ioanna MICHALIDOU, Udo LINDEMANN
3	IEEM14-P-0405	Deriving the Relationship Between User Satisfaction on Engine Sounds and Affective Variable Sets Based on Classification Algorithms	Wonjoon KIM, Gawon KIM, Yushin LEE, Myung Hwan YUN
4	IEEM14-P-0409	Gesture Interface Appropriateness Analysis on Smart TV Functions	Jaehong LEE, Byungki JIN, Soochan JEE, Jiyeon HAN, Myung Hwan YUN
5	IEEM14-P-0419	Employee Involvement and Training in Environmentally Conscious Manufacturing Implementation for Indian Manufacturing Industry	Perminderjit SINGH, Kuldeep Singh SANGWAN
6	IEEM14-P-0136	A Toolkit Based on NK Fitness Landscape for Behavioral Investigation in Complex Supply Chains	Ilaria GIANNOCARO
<b>Day 2 - Thursday, December 11, 2014 / Room Cancun / 15:30 - 17:00</b>			
<b>Intelligent Systems II / Chairs: Samreen Amir, Chin Yuan Fan</b>			
1	IEEM14-P-0293	A Priority Based Optimization Algorithm for Multi-objective Integrated Process Planning and Scheduling Problem	Muhammad Farhan AUSAF, Xinyu LI, Liang GAO
2	IEEM14-P-0422	The Knowledge Sharing Model on Supply Chain Simulation Using Recurrent Neural Network	Fumiaki SAITOH
3	IEEM14-P-0012	Implementation of Line Tracking Algorithm using Raspberry Pi in Marine Environment	Samreen AMIR, Ali Akbar SIDDIQUI, Nimrah AHMED, Bhawani Shankar CHOWDHRY
4	IEEM14-P-0457	Physical Layer Design of Optical Networks with Practical Considerations	Kin Fan POON, Anis OUALI, Beum LEE
5	IEEM14-P-0298	Developing Target Marketing Models for Personal Loans	Jen-Ying SHIH, Wun-Hwa CHEN, Yu-Jung CHANG
6	IEEM14-P-0031	Developments and Trends in Shopfloor-related ICT Systems	Olaf SAUER

## Poster Presentations

<b>Day 2 - Thursday, December 11, 2014</b>			
1	IEEM14-P-0007	A Study on RFID-based Kanban System in Inventory Management	Alireza GHELICHI, Ahmed ABDELGAWAD
2	IEEM14-P-0115	The Economic Analysis Model of Operations Strategy	Chun-Ying SHEN
3	IEEM14-P-0052	Solving an Economic and Environmental Dispatch Problem Using Evolutionary Algorithm	Forhad ZAMAN, Ruhul SARKER, Tapabrata RAY
4	IEEM14-P-0083	Message Sequencing of Rational and Emotional Appeals: A Study on Consumer Brand and Product Attitudes	Weng Marc LIM, Pei-Lee TEH, Pervaiz Khalid AHMED
5	IEEM14-P-0238	A Conceptual Neural Model for Business Selection in Multi Business Unit Firms	Saeed KHODAMORADI, Jalal ABDELLAHI
6	IEEM14-P-0407	A study on Developing the Indicators of Energy Conservation and Carbon Reduction for the Business	Liang-kong LIN, Walter DEN, Ying-Chyi CHOU, Ching-Hua LU, Hsin-Yi YEN
7	IEEM14-P-0121	Optimal Inventory Policies for Remanufacturing Inventory Systems with Multiple Returns	Xue-Ming YUAN, Z. L. TAN, Amrik Singh BHULLAR
8	IEEM14-P-0443	A New Conceptual Design Approach for Context-aware Product Service System	Dongping CHEN, Xuening CHU, Yuliang SU, Dexin CHU
9	IEEM14-P-0125	Evaluation of Equipment Renewal Based on Combination Weighting Method	Lei CHEN, Chunqing WANG, Xuedong LIANG, Zhaoxia GUO, Da WANG
10	IEEM14-P-0364	Applied Cognitive Psychology in Software Debugging Process to Predict Software Reliability Growth	Kuei-Chen CHIU
11	IEEM14-P-0376	Assessing Survivability for Damaged Aircraft in the Combat Environment	Yang PEI, Tao CHENG, Min XIE
12	IEEM14-P-0250	An Efficient Genetic Algorithm for Flexible Job-Shop Scheduling Problem	Ali MOKHTARI MOGHADAM, Kuan Yew WONG, Hamed PIROOZFARD
13	IEEM14-P-0309	A Integrated Inventory Model with Imperfect Production and Inspection Under Trade Credit Financing	Chia-Hsien SU, Liang-Yuh OUYANG
14	IEEM14-P-0478	Least Cost Design of Green Buildings by Genetic Algorithms	Kang-Ting TSAI, Min-Lun LYU, Min-Der LIN
15	IEEM14-P-0104	Performance Analysis of Autonomous Vehicle Storage and Retrieval Systems Depending on Storage Management Policies	Sascha KACZMAREK, Jonas GOLDENSTEIN, Michael TEN HOMPEL
16	IEEM14-P-0488	Integrating Fuzzy Logic to Systems Dynamics for Decision Support	Ifeyinwa ORJI, Sun WEI
17	IEEM14-P-0051	Effect of Inspirational and Motivational Leadership on Creativity and Innovation in SMEs	Wilson MALADZHI, Bingwen YAN
18	IEEM14-P-0079	In Search of Measuring Organizational Culture: ICT Peculiarities	Maria KÜTT, Mait RUNGI
19	IEEM14-P-0171	Investigating Factors Behind Choosing a Cryptocurrency	Aamna AL SHEHHI, Mayada OUDAH, Zeyar AUNG
20	IEEM14-P-0454	Model of Human Reliability for Manual Workers in Assembly Lines	Yolanda BÁEZ, Manuel RODRÍGUEZ, Jorge LIMON, Diego TLAPA
21	IEEM14-P-0220	Influence of Online Store Belief and Product Category on Impulse Buying: An Empirical Investigation on Consumer Perceptions	Qiong ZHOU, Xi CHEN, Yi-Wen CHEN
22	IEEM14-P-0077	Exploring Effects of Ecosystem Clockspeed on Product Performance	Saku MÄKINEN, Ozgur DEDEHAYIR, Roland ORTT

23	IEEM14-P-0086	Impact of Lean Development System Implementation on the Product Development Process	Uwe DOMBROWSKI, Kai SCHMIDTCHEN, Philipp KRENKEL
24	IEEM14-P-0502	Internet-of-things Disrupting Business Ecosystems: A Case in Home Automation	Saku MÄKINEN
25	IEEM14-P-0165	Postural Load Balancing in Daily Personnel Planning in an Assembly Line for Trailer Production by Working Posture Analysis	Christopher BRANDL, Alexander MERTENS, Jennifer BÜTZLER, Christopher M. SCHLICK
26	IEEM14-P-0493	An Enterprise System Virtual Factories Platform for Collaborative Business Environment	Yuqiuge HAO, Ahm SHAMSUZZOHA, Petri HELO
27	IEEM14-P-0041	Factors Affecting Product Quality and Reliability: A Comparison of Developed and Developing Countries	Pei-Lee TEH, Dotun ADEBANJO, Pervaiz Khalid AHMED
28	IEEM14-P-0483	Towards Recursive Plan-Do-Check-Act Cycles for Continuous Improvement	Michael Timo SCHMIDT, Fatos ELEZI, Iris TOMMELEIN, Udo LINDEMANN