A1: Scheduling and Sequencing I

ROOM: Hibiscus Rose (B2) TIME: Dec. 8　1330-1500

CHAIR: Chen-Yang Cheng

A1-1 (PAPER ID: 229)

Job sequencing and optimal scheduling for tri-temperature lot sizes in semiconductor testing

Yoshiki B. Kurata and Herwina Richelle C. Andres

A1-2 (PAPER ID: 351)

Production scheduling problem of an automobile components primer painting factory

Onyu Yu, Jeongin Koo, Byung-In Kim and Sungdo Lee

A1-3 (PAPER ID: 240)

A multi-objective optimization approach for solving university course timetabling problem - a case study of international university, VNU in HCMC, Vietnam

Nguyen Huu Tri, Ho Thanh Phong and Ho Doan Quoc

A1-4 (PAPER ID: 280)

Optimization resource-constrained project scheduling problem with stochastic activity durations

Huy Le Huu, Phong Ho Thanh and Quoc Ho Doan

A2: Ergonomics and Human Factors II

ROOM: Hibiscus Rose (B2)   TIME: Dec. 8 1520-1650
CHAIR: Hwa Jen Yap

A2-1 (PAPER ID: 447)

The development of a checklist for evaluating elderly user interface ability

Sui-Hua Ho and Chiuhsiang Joe Lin

A2-2 (PAPER ID: 366)

Interactive kinematics simulator for the 5 DOF virtual industrial robot

Hwa Jen Yap, Shirley Tho, Siow Wee Chang and Zahari Taha

A2-3 (PAPER ID: 404)

The study of human resource linkage with accounting valuation-inspiration of IFRS

Yi-Chun Lin and Pei-How Huang

A2-4 (PAPER ID: 205)

Developing a moveable augmented reality system using projector for supporting guide in Museum

Kazuto Omori and Takahiro Sugiyama

A2-5 (PAPER ID: 488)

Classification of the type of finger using a touch interfaces

Shuichi Kumazawa, Hasegawa Tatsuhito and Hidetaka Nambo

A2-6 (PAPER ID: 252)

Ergonomics application to work design on seafood processing line

Chung Van Nguyen

A3: Special Session-Marketing Analysis I

ROOM: Hibiscus Rose (B2)   TIME: Dec. 9   0900-1030
CHAIR: Kazuhiro Takeyasu

A3-1 (PAPER ID: 44)

Correspondence analysis for the questionnaire investigation on rare sugars

Yuki Higuchi, Hiromasa Takeyasu and Kazuhiro Takeyasu

A3-2 (PAPER ID: 48)

An Analysis for the questionnaire investigation about the high school teachers workload

Kazuhiro Takeyasu, Yasuo Ishii, Tatsuya Oyanagi and Daisuke Takeyasu

A3-3 (PAPER ID: 53)

Questionnaire investigation for the support of high school teachers by the school social worker

Daisuke Takeyasu, Tatsuya Oyanagi and Kazuhiro Takeyasu

A3-4 (PAPER ID: 54)

A hybrid method to improve forecasting accuracy utilizing genetic algorithm –an application to the data of operating equipment and supplies

Asami Shitara, Daisuke Takeyasu and Kazuhiro Takeyasu

A3-5 (PAPER ID: 491)

Efficient design of UAVs system for utilization at tourism industry

Byung Duk Song, Young Dae Ko and Hark Hwang

A3-6 (PAPER ID: 170)

Child education and care in Japan: past, present, and future

Itsuko Fukui

A4: Special Session-Marketing Analysis II

ROOM: Hibiscus Rose (B2)   TIME: Dec. 9   1050-1205

CHAIR: Kazuhiro Takeyasu

A4-1 (PAPER ID: 58)

Forecasting the daily shipping data of sanitary materials

Kazuhiro Takeyasu, Komei Suzuki and Hirotake Yamashita

A4-2 (PAPER ID: 73)

The analysis of hypothesis testing on rare sugars

Hiromasa Takeyasu, Daisuke Takeyasu and Kazuhiro Takeyasu

A4-3 (PAPER ID:168)

Measurement of the degree of brand purchase intention by using reaction time

Masao Ueda

A4-4 (PAPER ID: 519)

Proposal of item-sets in view of simultaneous purchase in convenience store

using association analysis

Wei Zang, Mio Ishiwata and Satoshi Kumagai

A4-5 (PAPER ID: 521)

Hospital outpatient service optimization with revenue management approach

Hai Shen and Kin Keung Lai

A5: Scheduling and Sequencing II

ROOM: Hibiscus Rose (B2)   TIME: Dec. 9   1330-1500

CHAIR: Teng-Sheng Su

A5-1 (PAPER ID: 318)

Bus reallocation problem in networks with overlapping routes

Nguyen T. Phong and Ho T. Phong

A5-2 (PAPER ID: 390)

Consultation sequencing of a hospital with multiple service points using genetic programming

Katsumi Morikawa , Katsuhiko Takahashi and Keisuke Nagasawa

A5-3 (PAPER ID: 408)

The scheduling planning with discrete event simulation based on a fuzzy set theory in a semiconductor fab construction engineering

Teng-Sheng Su and Luh-Maan Chang

A5-4 (PAPER ID: 485)

The application of job-shop scheduling in order picking problem a case study in customer distribution warehouse of DKSH

Tran Quoc Dat and Ho Thanh Phong

A5-5 (PAPER ID: 489)

General-purpose SPWA with the class-type skill by genetic algorithm

Daiki Takano, Kenichi Ida and Mitsuo Gen

A6: Uncertainty Theory

ROOM: Hibiscus Rose (B2)   TIME: Dec. 9   1520-1650

CHAIR: Charlle L. Sy

A6-1 (PAPER ID: 50)

Robust decision support system for a closed-loop repair and replenishment

network

Charlle L. Sy

A6-2 (PAPER ID: 458)

Risk evaluation approach on student projects using failure mode and effects

analysis based on fuzzy rule-based system and intelligent agents

Issarapong Khuankrue, Fumihiro Kumeno, Yutaro Ohashi and Yasuhiro Tsujimura

A6-3 (PAPER ID: 520)

Understanding responsible consumption and production under uncertainty

Kuo-Jui Wu, Liang Wang and Ming-Lang Tseng

A6-4 (PAPER ID: 125)

Statistical mechanics model for M/M/s queueing system with balking

Kosuke Tamura, Ikuo Arizono and Yasuhiko Takemoto

A6-5 (PAPER ID: 196)

Construction of P-control chart using image processing technique

Anirut Pipatprapa, Hsiang-Hsi Huang and Ching-Hsu Huang

A7: Special Session-Service System Engineering I

ROOM: Hibiscus Rose (B2) TIME: Dec. 10   0800-0930

CHAIR: Desheng Wu

A7-1 (PAPER ID: 503)

Circulation safety management system for the limited shelf life commodity

Xin Tian, Shou-yang Wang, Shi-hui Tian, Zhao-song Wu and Chan-juan Zhu

A7-2 (PAPER ID: 501)

A big data analysis: forum sentiment, price volatility and herding behavior

Desheng Wu

A7-3 (PAPER ID: 500)

A GA-based load balancing strategy for virtual machines in the cloud environment

He Luo, Yanqiu Niu, Zhengzheng Liang and Xiang Fang

A7-4 (PAPER ID: 499)

Modeling location diffusion, resource allocation and rebalance in car sharing industry

Xiaojia Wang and Bujian Jiang

A8: Special Session-Service System Engineering II

ROOM: Hibiscus Rose (B2) TIME: Dec. 10   1050-1205

CHAIR: Desheng Wu

A8-1 (PAPER ID: 498)

Economic dispatch of microgrid with the access of electric vehicles

Xinhui Lu and Kaile Zhou

A8-2 (PAPER ID: 497)

A time series QoS prediction method for time-aware cloud service recommendation

Shuai Ding and Ye-Qing Li

A8-3 (PAPER ID: 496)

Patterns in research university technology transfer

Zhanglin Peng, Keyu Zhu, Qiang Zhang and Li Zheng

A8-4 (PAPER ID: 495)

Mining social media websites to recommend groups of interest

Jianshan Sun, Dong Xu, Yuanchun Jiang and Yezheng Liu

B1: EAWIE-Supply Chain Management

ROOM: Lily Jasmine(B2) TIME: Dec. 8   1330-1500
CHAIR: Chang Seong Ko

B1-1 (PAPER ID: 154)

Information sharing on the bullwhip effect in a four-level supply chain

Wu-Lin Chen, Wan-Qiao Lai and Chin-Yin Huang

B1-2 (PAPER ID: 162)

Game-theoretic compromised network design in delivery services

Young Jun Ko, Ki Ho Chung, Friska Natalia Ferdinad and Chang Seong Ko

B1-3 (PAPER ID: 218)

Apply fuzzy weighted goal programming in sustainable sugar supply chain: a case study of Thanh Thanh Cong Company Vietnam

Quan Ha Duong, Hoang Huy Nguyen and Vinh Truc Do

B1-4 (PAPER ID: 319)

Supply chain for Vietnamese agricultural products: a case study of Japanese sweet potatoes in Binh Tan district-Vinh Long province

Chau Minh Nguyen Ngo and Phong Thanh Ho

B1-5 (PAPER ID: 403)

Model for job order allocation to suppliers considering transportation and manufacturing costs

T.M.A. Ari Samadhi and Rahindradi Puntho

B1-6 (PAPER ID: 486)

Design supply chain for agricultural products of Vietnam a case study: supply chain design for tangerine in DONG THAP PROVINCE

Ho Thanh Phong and Mai Ngoc Nhu

B2: Operations Research and Management Science I

ROOM: Lily Jasmine(B2) TIME: Dec. 8   1520-1650

CHAIR: Trung Luong Huynh

B2-1 (PAPER ID: 244)

Evaluation of multi-objective networks based on topological analysis

Nastumi Takahashi, Tomoaki Akibaand, Koji Shingyochi,

Hisashi Yamamoto and Xiao Xiao

B2-2 (PAPER ID: 263)

Car rental optimization under effect of upgrade policy

Tran Duc Huan and Phan Nguyen Ky Phuc

B2-3 (PAPER ID: 232)

A statistical analysis on the number of industrial engineering students of Bulacan State University who will take the IE certification examination

Jasper Kevin C. Dionisio and Denise Mae M. Unsay

B2-4 (PAPER ID: 457)

Network DEA: a modified non-radial approach

Victor John M. Cantor and Kim Leng Poh

B2-5 (PAPER ID: 438)

Option contract with put and call option: a case of one buyer and two suppliers

Huynh Trung Luong and Voraseth Jittsomboon

B3: Product Design and Development

ROOM: Lily Jasmine(B2) TIME: Dec. 9   0900-1030
CHAIR: Ying-Yin Rudy Huang

B3-1 (PAPER ID: 302)

Design for supply chain with a closed-loop design evaluation model using a PSO method

Yuan-Jye Tseng, Yi-Shiuan Chen and Wan-Tzu Wu

B3-2 (PAPER ID: 337)

Fully automatic self-administrative vision screener

Ying-Yin Rudy Huang and Marino Menozzi

B3-3 (PAPER ID: 344)

Designing game online physical voucher using house of quality (HOQ) and Kano model

Rosika Kusharfinna, Muhammad Akbar1 and Dradjad Irianto2

B3-4 (PAPER ID: 357)

Topology optimization and analysis of interchangeable compliant limb attachment for use in a modular lower extremity exoskeleton

Zahari Taha, Yashim Wong, Anwar P.P. Majeed, Abdelhakim Deboucha, Norhafizan Ahmad and Raja Ariffin Raja Ghazilla

B3-5 (PAPER ID: 59)

Optimal quality design when a product is customized by a customer using third-party firm's items under the uncertainty of customer' s preference

Hisashi Kurata and Yumi Meuthia

B3-6 (PAPER ID: 303)

Effective quick response in a supply chain

Yoshimi Tsukagoshi, Aya Ishigaki and Hiroaki Sandoh

B4: Operations Research and Management Science II

B4-1 (PAPER ID: 41)

A classroom assignment problem in university term examinations

Takeshi Koide and Yumiko Naba

B4-2 (PAPER ID: 43)

Intelligent storage location assignment in consideration of correlation between items

Ya-Hua Huang and Cheng-Hung Wu

B4-3 (PAPER ID: 61)

Optimal allocation of cashiers and pharmacists in large hospitals: a point-wise, fluid-based dynamic queueing network approach

Chung-Cheng Lu, Hui-Ju Chen, Kuo-Ching Ying and Tsung-Chi Yu

B4-4 (PAPER ID: 79)

Sharing information in a dual-supplier network from a game theoretic perspective

Yi Tao, Loo Hay Lee and Ek Peng Chew

B4-5 (PAPER ID: 182)

A proposal of a differential equation model for analyzing restaurant user trend in business district

Seiya Omonishi, Xiao Xiao, Hisashi Yamamoto, Yukio Maruyama and

Nozomi Oomiya

B5: Special Session-Human Interface

ROOM: Lily Jasmine (B2) TIME: Dec. 9   1330-1500
CHAIR: Takuya Tajima

B5-1 (PAPER ID: 130)

Verification of 4-class classification accuracy based on auditory steady state response for Brain-Computer Interface

Kazusa Shintani, Tadanobu Misawa and Shigeki Hirobayashi

B5-2 (PAPER ID: 131)

Evaluation of advertisement placement using near-infrared spectroscopy

Chikaho Kurahashi, Tadanobu Misawa, Yasuhiro Inazumi and Shigeki Hirobayashi

B5-3 (PAPER ID: 132)

A study of analysis model using BCI for long-time

Kikuji Obayashi, Tadanobu Misawa and Shigeki Hirobayashi

B5-4 (PAPER ID: 167)

Group conversation support system for hearing impaired person

Yusuke Sarukura, Hidetaka Nambo, Shuichi Seto and Haruhiko Kimura

B5-5 (PAPER ID: 181)

The technique for transmitting a sentence by the soles stimulation

Tomoya Kashiwa, Hidetaka Nambo and Haruhiko Kimura

B5-6 (PAPER ID: 90)

A fundamental study on analysis of brain activity according to the learning level

Yuya Ohama and Keisuke Shida

B6: Simulation I

ROOM: Lily Jasmine(B2) TIME: Dec. 9   1520-1650
CHAIR: Haiying Wang

B6-1 (PAPER ID: 76)

Electricity market risk measurement using Vine-Copula based Monte Carlo simulation model

Rui Zha, George Mang, Kin Keung Lai and Kaijian He

B6-2 (PAPER ID: 110)

Modeling and teaching inventory management in multiplayer supply chain competition game using Excel and Google Sheets

Berdymyrat Ovezmyradov, Yumi Meuthia and Hisashi Kurata

B6-3 (PAPER ID: 155)

A research on an efficient derivation method for feasible assembly sequences

Satoru Yazawa, Osamu Ichikizaki, Takuya Hida,
Toshiyuki Matsumoto and Shinji Shinoda

B6-4 (PAPER ID: 377)

A factory simulation system based on cloud services and portable scheduling intelligence

Toly Chen and Tzu-Yun Lin

B6-5 (PAPER ID: 444)

Simulated annealing for capacity planning of reentrant production systems

Geun-Cheol Lee, Jeong Man Hong, Jung Ug Kim and Seong-Hoon Choi

B6-6 (PAPER ID: 525)

Virtual sample based multi-objective optimization for high pressure turbine disc

Guoqi Feng, Haiying Wang and Dongliang Cui

B7: Operations Research and Management Science III

ROOM: Lily Jasmine (B2) TIME: Dec. 10   0800-0930

CHAIR: Kenji Tanaka

B7-1 (PAPER ID: 166)

Multi-service facility location with applications to the recycling industry

Ping-Ting Lin, Chun-Kai Hsu, Chao-Yu Hung and Chung-Shou Lia

B7-2 (PAPER ID: 372)

China's S&T and Innovation studies since 1978: A meta-analysis based on bibliometrics

Yutao Sun

B7-3 (PAPER ID: 316)

Optimal inventory allocation under substitutable demand

Chi-Yang Tsai and Ju-Yen Lu

B7-4 (PAPER ID: 445)

New Service design based on power demand forecasting methods using real customer data

Hokuto Kano and Kenji Tanaka

B7-5 (PAPER ID: 443)

Linked bibliographic data: an approach to integrating bibliographic data with external datasets from the Web

Hendrik, Eko Budi Prasetyo and Teduh Dirgahayu

B7-6 (PAPER ID: 356)

Exploring users' satisfaction and continuance intention towards E-Learning systems

Ling-Lang Tang and Kiet Oanh Chau

C1: EAWIE-Decision Modeling and Theory

ROOM: Banquet Hall (III) (B2) TIME: Dec. 8   1330-1500
CHAIR: James J.H. Liou

C1-1 (PAPER ID: 42)

A novelty hybrid method for integrated innovation in strategic supply chain management
Ming-Lang Tseng, Anthony S.F. Chiu and Ming K. Lim

C1-2 (PAPER ID: 104)

Profitability and risk analysis for investment alternatives on C-R domain
Hirokazu Kono and Osamu Ichikizaki

C1-3 (PAPER ID: 38)

Improving the service quality of public bike-sharing systems under information uncertainty
James J.H. Liou, Yu-Chih Wang, Huai-Wei Lo and Chao-Che Hsu

C1-4 (PAPER ID: 268)

Application of a hybrid model for mitigating skill-based errors in military flight operations
Jeng-Chung Chen and Shu-Chiang Lin

C1-5(PAPER ID: 393)

Garment design assessment using AHP and choquet integral
Mohammad Adam Jerusalem and Shi-Woei Lin

C2: E-Business and Information Technology I

ROOM: Banquet Hall (III) (B2) TIME: Dec. 8   1520-1650
CHAIR: Chao Ou-Yang

C2-1 (PAPER ID: 122)
Constructing a B2C repurchase intention model based on consumer perceptive factors
Ling-Lang Tang, Che-Han Hsu and Ya-Wen Chan

C2-2 (PAPER ID: 193)
Determinants of m-commerce adoption in Indonesia: a neural network approach
Yusraini Muharni, Chao Ou-Yang and Diah Priharsari

C2-3 (PAPER ID: 133)
Product improvement opportunity analysis based on text mining of online VOC: application of topic modeling and chance discovery theory
Nam-uk Ko and Janghyeok Yoon

C2-4 (PAPER ID: 345)
Reclaim wafer defect classification using SVM
Mei-Ling Liu and Fang-Chih Tien

C2-5 (PAPER ID: 87)
The impact of source, recipient, and tacit knowledge characteristics on tacit knowledge transfer effectiveness
Amelia Kurniawati, TMA Ari Samadhi, Iwan Inrawan Wiratmadja and Rayinda Pramuditya Soesanto

C2-6 (PAPER ID: 88)
Knowledge sharing for individual innovation capability at Indonesian SMI
Augustina Asih Rumanti, Tma Ari Samadhi and Iwan Inrawan Wiratmadja

C3: Service Science and Management

ROOM: Banquet Hall (III) (B2) TIME: Dec. 9   0900-1030
CHAIR: Jazmin Chong Tangsoc

C3-1 (PAPER ID: 35)
Development of a multi-perspective assessment tool in evaluating the service quality of Philippine public HEIs
Marc Immanuel G. Isip and Richard C. Li

C3-2 (PAPER ID: 56)
Use analytic hierarchy process for subcontractor evaluation in construction industry: a case study
Bolor-saikhan Gankhuyag and Pei-Fang (Jennifer) Tsai

C3-3 (PAPER ID: 71)
Renewal process streamlining of a government service facility through simulation: a TRIZ approach in facilities system design
Yoshiki B. Kurata, Rose Marie Lou P. Bano, Marjorie R. Navales, Darrel B. Cedron and Darcy Jules M. Pinga

C3-4 (PAPER ID: 78)
The self-checkout system: enhancement of customer satisfaction by reducing long queuing lines in checkout lanes of convenience stores in the Philippines
Jocelyn D. Abad, Diana Rose C. Sayo, John Ritche P. Jandayan, Cris John D. De Villa, Hilda P. Villaflores and Maricar M. Navarro

C3-5 (PAPER ID: 204)
An ergonomic workstation analysis on call center agents
Jonathan Edmon Abad, Ma. Monica Galarido, Angelee Faye Tiu and Jazmin Chong Tangsoc

C3-6 (PAPER ID: 306)
On evaluation of NFC technology in hypermarkets using the DEMATEL-based analytic network process
Angela Hsiang-Ling Chen, Yun-Chia Liang and Tsung-Yu Huang

C4: Special Session-Industry 4.0

ROOM: Banquet Hall (III) (B2) TIME: Dec. 9   1050-1205
CHAIR: Chin-Yin Huang

C4-1 (PAPER ID: 277)

Automatic programming for industrial robotics: a cornerstone for cyber-physical system in Industrial 4.0

Shao-Hsuan Lin, Wu-Lin Chen and Chin-Yin Huang

C4-2 (PAPER ID: 348)

An operator assignment model in reconfigurable labour-intensive manufacturing cells

Takayuki Kataoka, Katsumi Morikawa and Katsuhiko Takahashi

C4-3 (PAPER ID: 109)

System informatics-based services: a conceptual framework

Kwang-Jae Kim, Chie-Hyeon Lim, Jun-Yeon Heo,

Min-Jun Kim, Ki-Hun Kim and Chang-Ho Lee

C4-4 (PAPER ID: 446)

Impact of Guanxi on logistics performance in Thailand: a proposed method

Poti Chao

C5: Supply Chain Management II

ROOM: Banquet Hall (III) (B2) TIME: Dec. 9   1330-1500

CHAIR: I-Hsuan Hong

C5-1 (PAPER ID: 225)

A price-setting retailer sourcing from strategic suppliers facing disruption

Suresh Sethi and Xi Shan

C5-2 (PAPER ID: 300)

Sustainable supplier selection with anp and fuzzy ANP: a salt production company example

Chi-Yang Tsai and Stephany Molina

C5-3 (PAPER ID: 371)

Determining order-up-to level considering backorder cost per unit short on the base-stock inventory system under intermittent demand

Keisuke Nagasawa and Takashi Irohara

C5-4 (PAPER ID: 511)

Allocation of cost savings in an O2O information-sharing supply chain

An-Ni Lu and I-Hsuan Hong

C5-5 (PAPER ID: 195)

A moderating effect of task-technology fit model toward enterprise information portal (EIP) in Taiwan

Chia-San Chang, Tsuang Kuo, Iuan-yuan Lu and Shih-Hsing Wu

C6: Management of Technology and Innovation

ROOM: Banquet Hall (III) (B2) TIME: Dec. 9   1520-1650

CHAIR: Iwan Inrawan Wiratmadja

C6-1 (PAPER ID: 63)

Innovation process audit model: a case study in an electronics company

Iwan Inrawan Wiratmadja, Fajar Wisma Prihantoro and
Amelia Kurniawati

C6-2 (PAPER ID: 248)

Startup strategies of intermediate goods manufacturers in Thailand:-a case study of a Japanese-affiliated company-

Kentaro Ito and Nobutaka Odake

C6-3 (PAPER ID: 140)

Invention property analysis of patents: a case of augmented reality technology

Hayoung Choi and Janghyeok Yoon

C6-4 (PAPER ID: 107)

Role of SI vendors for the optimization of customer benefits: study on efficient utilization of program management

Akihiko Sekiguchi and Tetsuro Seki

D1:Best Practice Paper Award Competition I

ROOM: Dragon Hall(3F) TIME: Dec.8　1330-1500
CHAIR: Chien-Yi Huang, CO-CHAIR: Ying-Yin Huang

D1-1 (PAPER ID: 75)

Project selection via stochastic multi-criteria acceptability analysis

Banting Wai Pan Sze, Kin Keung Lai and Yelin Fu

D1-2 (PAPER ID: 145)

A capacity trading and transfer pricing method for semiconductor manufacturing

Muh-Cherng Wu, Jheng-Jie Peng and Chao-Wei Wang

D1-3 (PAPER ID: 177)

An ILS algorithm for the team orienteering problem with variable profit

Aldy Gunawan, Kien Ming Ng, Graham Kendall and Junhan Lai

D1-4 (PAPER ID: 209)

Energy management of the Archimedean pump system

Hiroshi Fujimoto and Seiichiro Miura

D1-5 (PAPER ID: 272)

A scheduling research in plant factory with considering multi-period harvest

Kwei-Long Huang, Chao-Lung Yang, Che-Ming Kuo and Hao-Chen Weng

D1-6 (PAPER ID: 517)

An optimal switching model considered the risks of production, quality and due data for limited-cycle with multiple periods

Jing Sun, Hisashi Yamamoto and Masayuki Matsui

D2: Best Practice Paper Award Competition II

ROOM: Dragon Hall (3F) TIME: Dec. 8   1520-1650
CHAIR: Chien-Yi Huang, CO-CHAIR: Ying-Yin Huang

D2-1 (PAPER ID: 172)

Empirical study of indecision behavior in customer's purchase process using EC data

Takashi Namatame and Tomoaki Tabata

D2-2 (PAPER ID: 190)

Selecting an air traffic flow management action to be implemented during airport congestion using a hybrid fuzzy MCDM approach

Miriam F. Bongo and Lanndon A. Ocampo

D2-3 (PAPER ID: 197)

Nash marginal abatement cost estimation of air pollution emissions by stochastic semi-nonparametric frontier in the Coal-Fired power industry

Chia-Yen Lee

D2-4 (PAPER ID: 222)

Analysis of impacts on the purchasing behavior using information on social networking services

Kohei Otake and Takashi Namatame

D2-5 (PAPER ID: 465)

Optimal capacity design for unreliable assembly-like supply chain system

Fong-Fan Wang

D2-6 (PAPER ID: 478)

A user-centered, innovative NPD with integration of scenario-based design and TRIZ

Chun-Ming Yang, Ching-Han Kao, Thu-Hua Liu,
Yan-Lin Lee and Ya-Yi Zheng

D3: Green Manufacturing and Management

ROOM: Dragon Hall (3F) TIME: Dec. 9   0900-1030
CHAIR: Sha'ri Mohd Yusof

D3-1 (PAPER ID: 57)

Analysis of evolutionary stability for behavior strategies on recycling promotion activity in green supply chain

Daijiro Tomita and Etsuko Kusukawa

D3-2 (PAPER ID: 116)

Optimal operation with flexible ordering policy for green supply chain considering the uncertainties in product demand and collection quantity of used products

Shin Yamaguchi and Etsuko Kusukawa

D3-3 (PAPER ID: 161)

A review of Eco-innovation concept

Suziyana Mat Dahan and Sha'ri Mohd Yusof

D3-4 (PAPER ID: 368)

Applying eco-innovation for enhancing corporate functions under Chinese management style

Li Cui, Min Zhang and Anthony S.F. Chiu

D3-5 (PAPER ID: 64)

Lean and green methodology in a shoe manufacturing company

Jocelyn D. Abad, Franiel Germaine M. Tapang, Joe Ryan D. Romero, Mary Rose L. Anier, Timothy Ranil R. Domingo, Jhunnie Chris A. Bernabe and Yoshiki Kurata

D3-6 (PAPER ID: 338)

A study of resin as master jewelry material, a new alternative material to perform higher complexity and surface quality of jewelry master using CNC

Paryana Puspaputra

D4: Health Care System II

ROOM: Dragon Hall (3F) TIME: Dec. 9　1050-1205

CHAIR: Chen-Yang Cheng

D4-1 (PAPER ID: 360)

Using particle swarm optimization algorithm in manpower planning for a call center in healthcare service

Chumpol Yuangyai, Sarusakorn Booranadiloak, Wan-Chen Chiang and Chen-Yang Cheng

D4-2 (PAPER ID: 363)

Using differential evolution in skull prosthesis modelling by superellipse

Yu-Cheng Lin, Chen-Yang Cheng, Yi-Wen Cheng and Cheng-Ting Shih

D4-3 (PAPER ID: 462)

Mining sequential patterns of suffered diseases before getting Stevens-Johnson syndrome in Taiwan

Shih-Chung Chou, Chao Ou-Yang and Yeh-Chun Juan

D4-4 (PAPER ID: 487)

Simulation application in healthcare: a case study of outpatient clinic in an hospital, hochiminh city

Dat Tu Thien, Phong Ho Thanh, Nguyen Nguyen Truong and Quoc Ho Doan

D5: Other Related Topics in IE/MS II

ROOM: Dragon Hall (3F) TIME: Dec. 9   1330-1500

CHAIR: Balkrishna E. Narkhede

D5-1 (PAPER ID: 148)

Social life cycle assessment of solar suitcase in a community of Doña Remedios Trinidad, Bulacan

Dyan C. Gonzales-Rodriguez and Hazel A. Caparas

D5-2 (PAPER ID: 508)

Modelling the critical risk factors causing accidents at the construction sites of oil and gas projects

Balkrishna E. Narkhede, Bhaskar M. Bhandarkar and Ashok K. Pundir

D5-3 (PAPER ID: 323)

A commodity trading policy to maximize the survival probability

Wen-Chih Chen, Cheng-Hung Wu and Ping-Chung Chi

D5-4 (PAPER ID: 474)

Negotiation decision analysis on pricing of mobile application development with the trading platform under the B2B market

Jei-Zheng Wu and Tzu-Wen Yin

D5-5 (PAPER ID: 505)

A System dynamics approach on quality assurance system for undergraduate programs

Yuli Agusti Rochman

D5-6 (PAPER ID: 391)

Development of machining feature recognition software module

Wisnu Aribowo, Mohammad Mi'radj Isnaini and Anas Ma'ruf

D6: Other Related Topics in IE/MS IV

ROOM: Dragon Hall (3F) TIME: Dec. 9   1520-1650
CHAIR: Ronaldo V. Polancos

D6-1 (PAPER ID: 512)

Study on the demand of rural electronic commerce talent under the Internet plus Era

Minghui Long

D6-2 (PAPER ID: 518)

A project management model that considers risk failure, stakeholder involvement and communication effectiveness

Ronaldo V. Polancos

D6-3 (PAPER ID: 369)

Industrial linkage, vertical M&As and market anticipation

Xiangxiang Lang and Changqing Li

D6-4 (PAPER ID: 460)

Optimizing production plan using balanced-KPI

Kohsuke Katoh

D6-5 (PAPER ID: 513)

Research on the construction of learning organization based on the knowledge management

Minghui Long

D6-6 (PAPER ID: 230)

An integrated approach for production and distribution planning using a two-level routing pattern in global production networks

Qian Huang, Jiahua Weng and Hisashi Onari

D7: Special Session-Uncertainties in Industrial and Management Systems I

ROOM: Dragon Hall (3F) TIME: Dec. 10   0800-0930

CHAIR: Baoding Liu

D7-1 (PAPER ID: 243)

Some theorems and algorithms for uncertain graphs

Yuan Gao

D7-2 (PAPER ID: 523)

Energy-efficient train scheduling problem with dynamic passenger demands

Lixing Yang

D7-3 (PAPER ID: 524)

Research on several problems about uninorms

Hua-Wen Liu

D7-4 (PAPER ID: 526)

Uncertain differential game with optimistic value criterion

Xiangfeng Yang and Jinwu Gao

E1: Special Session-POM in Sharing Economy I

ROOM: Meeting Room (CR401) (4F) TIME: Dec. 8　1330-1500

CHAIR: I-Lin Wang

E1-1 (PAPER ID: 431)

On the crowdsourced repositioning scheme for public bike sharing systems

I-Lin Wang and Chen-Tai Hou

E1-2 (PAPER ID: 164)

Dynamic optimization of shared capacity under demand uncertainties and price differentiation

Chao-Yang Hung, Elaine Lee, Cheng-Hung Wu

E1-3 (PAPER ID: 176)

Bicycle-sharing with reallocation trucks and private exchange－Taipei YouBike system as example

Hui-Chih Hung, Jun-Min Wei, and Ming-Te Chen

E1-4 (PAPER ID: 188)

Evaluating the need of dynamic stock balancing for bike sharing

Katayut Kamano and Yon-Chun Chou

E1-5 (PAPER ID: 180)

Dynamic booking management for shared private parking system

Shuo-Yan Chou, Anindhita Dewabharata, Debby Rahmi Isnaeni and Zaenal Arifin

E1-6 (PAPER ID: 250)

An automatic licensing framework for 3D printed content

James Griffin, Hing Kai Chan, Fangli Zeng and Jia Jia Lim

E2: Special Session-POM in Sharing Economy II

ROOM: Meeting Room (CR401) (4F) TIME: Dec. 8 1520-1650

CHAIR: Kimitoshi Sato

E2-1 (PAPER ID: 189)

Inventory management for items under product classification

Cheng-Hung Wu, Ching-Jung Tang, Yi-Ju Ting and Yeni Ouyang

E2-2 (PAPER ID: 270)

Revenue-sharing contract with promotion cost for the film supply chain

Kwei-Long Huang, Chia-Wei Kuo, Cheng-Che Ho and Chen-Ni Yen

E2-3 (PAPER ID: 296)

Optimal pricing for event tickets in a matching system

Kimitoshi Sato, Kenichi Nakashima and Chisato Moriki

E2-4 (PAPER ID: 52)

Science of collaboration, balancing vs. sharing: a mathematical, physical and economical view

Masayuki Matsui, Tetsuo Yamada and Masato Takanokura

E3: Best Student Paper Award Competition I

ROOM: Meeting Room (CR401) (4F)TIME: Dec. 9　0900-1030

CHAIR: Zhen-Hua Che, CO-CHAIR: Pei-Fang Tsai

E3-1 (PAPER ID: 226)

Enhancing service quality of new draftees' physical examination using the hybrid simulation

Cholada Kittipittayakorn, Kuo-Ching Ying

E3-2 (PAPER ID: 55)

Optimal sales strategies for dual channel under cooperation and competition considering customer purchasing preference

Masahiro Yamamoto, Etsuko Kusukawa

E3-3 (PAPER ID: 198)

LASSO variable selection techniques in data envelopment analysis

Jia-Ying Cai, Chia-Yen Lee

E3-4 (PAPER ID: 69)

Modeling and simulation of nonlinear phenomena for internet-aided manufacturing

Xinhai Wang, AMM Sharif Ullah and Akihiko Kubo

E4: Best Student Paper Award Competition I

ROOM: Meeting Room (CR401) (4F) TIME: Dec. 9　1050-1205

CHAIR: Zhen-Hua Che, CO-CHAIR: Pei-Fang Tsai

E4-1 (PAPER ID: 115)

Mean-variance analysis for optimal operation for green supply chain with uncertainties in product demand and collectable quantity of used products

Naoto Takahashi, Etsuko Kusukawa

E4-2 (PAPER ID: 365)

An Optimization model for designing a resilient eco-industrial park network

Bryan Timothy C. Tiu, Dennis E. Cruz

E4-3 (PAPER ID: 128)

Reliability analysis of 2-component standby redundant system with priority under limited information

Satoshi Oigawa, Ikuo Arizono, Ryosuke Tomohiro,

Yasuhiko Takemoto

E4-4 (PAPER ID: 502)

An innovative decision support approach to hedge path dependent risk in option market

Tianxiang Liu, Desheng Wu

E5: Reliability and Maintenance

ROOM: Meeting Room (CR401) (4F) TIME: Dec. 9　1330-1500

CHAIR: Fu-Kwun Wang

E5-1 (PAPER ID: 46)

Reliability analysis in the field data with interval censored

Fu-Kwun Wang and Johnny Lin

E5-2 (PAPER ID: 68)

Determining the optimal correlated multistate resource assignment with maximal network reliability using a hybrid GA-TS algorithm

Cheng-Ta Yeh, Yi-Kuei Lin, Jo-Yun Yang

E5-3 (PAPER ID: 72)

Stochastic formulations of importance measures and their extensions to multi-state systems

Fumio Ohi

E5-4 (PAPER ID: 441)

T modified replacement overtime policy for shock and damage model

Satoshi Mizutani, Syouji Nakamura, Toshio Nakagawa

E5-5 (PAPER ID: 418)

Maintenance contract with imperfect preventive maintenance in dynamic operating condition

R. Wangsaputra, A.H. Halim, and B. P. Iskandar, H. Husniah

E5-6 (PAPER ID: 269)

Suggesting adjusted impact factor by using F min search algorithm

Woojin Lee, Junghoon Hah, Min Cheol Cha, and Jaewook Lee

E6: EAWIE-Product Design and Development

ROOM: Meeting Room (CR401) (4F) TIME: Dec. 9   1520-1650
CHAIR: Hitoshi Nishi

E6-1 (PAPER ID: 210)

Knowledge management system for Universal Design training

- Attempt on a special subsidiary company as a facility for learning about technicians

Seiichiro Miura, Sakiko Ogoshi, Yasuhiro Ogoshi, Naohiro, Hayashi, Takashi
Yoshioka, Yutaka Yamaguchi,Hitoshi Nishi

E6-2 (PAPER ID: 217)

A study on production design: considering quality function deployment,

multi-item designing and operating efficiency in the design phase

Masamitsu Kiuchi, Hiroyuki Murata, Kin'ya Tamaki

E6-3 (PAPER ID: 311)

Understanding the consumers' perspective in accepting the ecolabel product by a structural reasoned model assessment

Shu-Chiang Lin, Yulia Puspa Rachmaniati, Reny Nadlifatin, Mohammad Razif, Satria
Fadil Persada, Albert Lin

E6-4 (PAPER ID: 350)

How Innovation transforms a defeated product into a success-a case study of CITY CAFÉ

Chung-Cheng Tu, Su-Mei Chiu, Hue-Mei Liang

E6-5 (PAPER ID: 384)

Brief measure for fostering manufacturing engineers with universal design mind-

effect of special subsidiary company tour for engineering students

Hitoshi Nishi, Naoto Kaneda, Sakiko Ogoshi, Yasuhiro, Ogoshi, Seiichiro Miura

E7: Industrial Automation and IE Education

ROOM: Meeting Room (CR401) (4F) TIME: Dec. 10　0800-0930
CHAIR: Du-Ming Tsai

E7-1 (PAPER ID: 85)

Automatic visual position and inspection of printed circuit boards using E-M algorithm

Du-Ming Tsai and Yi-Chun Hsieh

E7-2 (PAPER ID: 136)

Development of an FDM-based additive manufacturing system for large-scale part fabrication

Metha Phetawut, Chatuporn Tonglim, Thittikorn Phattanaphibul ,
Natthawat Hongkarnjanakul and Jitote Thongta

E7-3 (PAPER ID: 194)

Development of support system for defect detection based on human visual mechanism in visual inspection process

Yu Okabe, Ryosuke Nakajima, Takuya Hida and Toshiyuki Matsumoto

E7-4 (PAPER ID: 37)

Attitude change in learners who completed a technology management and career design fusion program as part of a liberal arts curriculum

Kazuyoshi Ishii and Makoto Nakano

E7-5 (PAPER ID: 214)

Design of educational program for management of market, procurement and production — case study of educational program for supply and demand management in University

Jing Sun, Masahiro Arakawa, Ichiro Koshijima and Yoshihiro Hashimoto

E7-6 (PAPER ID: 224)

Analysis on the feasibility of offering the b.s. industrial engineering program at Bataan Peninsula State University

John Ryan C. Dizon

E8: E-Business and Information Technology II

ROOM: Meeting Room (CR401) (4F) TIME: Dec. 10   1050-1205
CHAIR: Kuentai Chen

E8-1 (PAPER ID: 216)

Perceive intention of using mobile payment systems: apple pay

Tsuang Kuo, Jian-De Lu, Iuan-Yuan Lu and Wei-Hsiu Wu

E8-2 (PAPER ID: 439)

A framework for improving IT service continuity management

Teduh Dirgahayu and Ulya Anisatur Rosyidah

E8-3 (PAPER ID: 246)

Applying balanced scorecard approach in performance evaluation of enterprise resource planning project

Li-Man Liao and Xiang-Yu Lin

E8-4 (PAPER ID: 307)

Prediction of house unit price in taipei city using support vector regression

Tse-Wei Lee and Kuentai Chen

E8-5 (PAPER ID: 473)

Consideration of cooperation for social value creation

Morihiro. Kaede, Isao. Kato and Ichiro. Koshijima

F1: Ergonomics and Human Factors I

ROOM: Meeting Room (CR402)(4F)
TIME: Dec. 8   1330-1500
CHAIR: Sheau-Farn Max Liang

F1-1 (PAPER ID: 51)

Environmental ergonomics and postural job analysis on handcrafting process of a small-scale jewelry enterprise

Hazel A. Caparas

F1-2 (PAPER ID: 65)

Ergonomic evaluation of child car seat design

Te-Hung Chen, Chien Yang and Mao-Jiun J. Wang

F1-3 (PAPER ID: 70)

Evaluation of standing stability and reaching postures on a stepladder for occupational fall prevention

Atsushi Sugama and Akihiro Ohnishi

F1-4 (PAPER ID: 149)

MaxSorting: a new card sorting tool

Yun-Ju Becker Lee and Sheau-Farn Max Liang

F1-5 (PAPER ID: 151)

A proposal for optimum gripping position and operating method focusing on the upper limb load and the control force

Takahiro Naka, Takuya Hida and Toshiyuki Matsumoto

F2: EAWIE-Reliability and Maintenance

ROOM: Meeting Room (CR402)(4F)
TIME: Dec. 8　1520-1650
CHAIR: Won Young Yun

F2-1 (PAPER ID: 91)

Expected severity model for FMEA under Weibull failure and detection time distributions with a common shape parameter

Hyuck Moo Kwon, Shie-gheun Koh, Sung Hoon hong and Min Koo Lee

F2-2 (PAPER ID: 95)

A spare parts allocation problem for multi-level systems

Wonseok Jeon, Nahyeon Kim and Won Young Yun

F2-3 (PAPER ID: 256)

Simulation-based optimal replacement model for a PCS in the ESS under combination warranty policy

Young Jin Han, Hong Bean Park, Jae Jung Kim, Hyeon Ae Jang and Won Young Yun

F2-4 (PAPER ID: 398)

Cost analysis of two dimensional warranties considering lemon lawsChau B. P. Iskandar, A. Cakravastia and H. Husniah

F2-5 (PAPER ID: 414)

Maintenance service contracts for repairable product involving cooperative relationship between oem and agent

H. Husniah, B. P. Iskandar and R. Wangsaputra

F2-6 (PAPER ID: 325)

Approximations for reliability of the connected-(1,2)-or-(2,1)-out-of-(m,n):F Lattice system

Taishin Nakamura, Hisashi Yamamoto, Takashi Shinzato, Tomoaki Akiba and Mai Xiao Xiao

F3: Best Student Paper Award Competition II

ROOM: Meeting Room (CR402)(4F)
TIME: Dec. 9   0900-1030
CHAIR: Zhen-Hua Che   CO-CHAIR: Pei-Fang Tsai

F3-1 (PAPER ID: 395)
General share-a-ride problem
Sesya Sri Purwanti, A. A. N. Perwira Redi and Vincent F. Yu

F3-2 (PAPER ID: 208)
Identifying product opportunities using topic modeling and sentiment analysis of social media data
Byeongki Jeong and Janghyeok Yoon

F3-3 (PAPER ID: 236)
Indoor positioning method using proximity Bluetooth low-energy beacon
Daiki Kudou, Mitsuyoshi Horikawa, Tatsuya Furudate and Azuma Okamoto

F3-4 (PAPER ID: 394)
Development a collide-based automated assembly sequence algorithm in industry 4.0
Chi-Hsin Wang and Chen-Yang Cheng

F3-5 (PAPER ID: 289)
Profitability of hybrid manufacturing/remanufacturing system in closed loop supply chain
Takumi Nanasawa and Yasutaka Kainuma

F4: Best Student Paper Award Competition II

F4-1 (PAPER ID: 424)
Implementation of triple bottom line concept and selection of a product design
H. A. Salaam, Zahari Taha and T.M.Y.S. Tuan Ya

F4-2 (PAPER ID: 436)
Investigating technology and patent portfolio of lens-less cameras in the context of industry 4.0
Usharani Hareesh Govindarajan, Amy J.C. Trappey and Charles V. Trappey

F4-3 (PAPER ID: 448)
A study of transforming strategy into a new business domain in the Japanese mature glass industrial cluster
Ryo Terashima and Nobutaka Odake

F4-4 (PAPER ID: 504)
A system study on the outbound operations of a Philippine FMCG company's distribution center
Anna Mikaella S. Bongato, Luis Enrique I. Caeg, Samantha R. Concepcion and Dennis E. Cruz

F5: Ergonomics and Human Factors III

ROOM: Meeting Room (CR402) (4F)TIME: Dec. 9   1330-1500
CHAIR: Caijun Zhao

F5-1 (PAPER ID: 152)
Proposal of tactile inspection conditions for valid defects detection focusing on haptic perception with active touch
Kazuki kishi, Takuya Hida, Ryosuke Nakajima and Toshiyuki Matsumoto

F5-2 (PAPER ID: 165)
Influence of occupational stress on the early turnover of young employees
Haruka Saito, Masao Okano

F5-3 (PAPER ID: 249)
Perceived floor slipperiness in a gait experiment
Caijun Zhao, Ai-qun Liu, Lu Peng, Faming Jiang and Kai-Way Li

F5-4 (PAPER ID: 320)
Integrating assembly aspect into ergonomic design of classroom furniture
Supakan Kantow, Natthavika Chansri and Pensuda Phanritdum

F5-5 (PAPER ID: 399)
Anthropometric mismatch between student's body dimensions and school furniture in Indonesian elementary school and proposed dimensions
Yanto and Chih-Wei Lu

F5-6 (PAPER ID: 433)
Modelling of ergonomic risks factors as predictors to work related fatigue near miss accidents experienced among Malaysian express bus drivers: partial least squares (PLS) approach
Zahari Bin Taha and Yusof Bin Hashim

F6: Big Data Methodology and Applications

ROOM: Meeting Room (CR402) (4F) TIME: Dec. 9　1520-1650
CHAIR: Haruka Yamashita

F6-1 (PAPER ID: 94)

Using big data analytics for money laundering detection – a case study
Shih-Che Lo and Tzung-Shian Li

F6-2 (PAPER ID: 297)

Establishing a big data analysis framework and computing equilibrium market share with vehicle data
Si-Jheng Ciou, Yi-Hau Huang, and Yu-Ching Lee

F6-3 (PAPER ID: 375)

Discrimination model for synthetic variables generated from explanatory variables considering sample attributes
Haruka Yamashita and Masayuki Goto

F6-4 (PAPER ID: 463)

Multivariate time series classification for equipment monitor and fault detection
Wei-Chen Liu and Chia-Yu Hsu

F6-5 (PAPER ID: 480)

Analysis and prediction of patent trajectory
Yun-Chia Liang, Angela Hsiang-Ling Chen
and René Josué Aparicio Monjarás

F6-6 (PAPER ID: 494)

Modeling of quantification of sensible temperature by analyzing weather conditions and tweet data
Takashi Maga, Kenta Mikawa, Masayuki Goto,
and Tomohiro Yoshikai

F7: Simulation II

F7-1 (PAPER ID: 200)
Generating correlated catastrophic disruption and yield loss logistics risks with known expected value and variance-covariance structure
Chieh Lee and Gang S. Zhang

F7-2 (PAPER ID: 267)
Apply simulation application optimize production process for car industry
Phan Van Tong

F7-3 (PAPER ID: 336)
Improving production capacity of Pre-Cast concrete production using simulation
Muhammad Rusman and Sulfikar Abdullah

F7-4 (PAPER ID: 352)
For the Subjective Evaluation Items of the Pencil Still Drawing Evaluation System
Yoshiko Furusho

F7-5 (PAPER ID: 440)
Development of a capacity planning simulation model for semiconductor wafer fabrication
Li-Chih Wang, Ching-I Chen and Chun-Ya Chueh

F7-6 (PAPER ID: 407)
Design improvement of supply chain information system for public transportation services (case study: Trans Jogja)
Agus Mansur, Dian Janari, Nashrullah Setiawan and Firman Bani Albar

G1: Data Mining I

G1-1 (PAPER ID: 74)

A novel approach to handle imbalanced data for classification

R. J. Kuo, L. Lin and F. E. Zulvia

G1-2 (PAPER ID: 119)

Development of forecasting method concerning water demands in the saitama city waterworks service area

Yukio Maruyama, Hisashi Yamamoto, Masaaki Ohba and Atsushi Suzuki

G1-3 (PAPER ID: 142)

A study on distance metric learning using distance structure among category centroids

Kenta Mikawa, Manabu Kobayashi, Masayuki Goto and Shigeichi Hirasawa

G1-4 (PAPER ID: 150)

An analytic model of relation between companies' recruitment activities and number of students' application based on mixture regression model

Seiya Nagamori , Haruka Yamashita, Masayuki Goto   and Tairiku Ogihara

G1- 5(PAPER ID: 179)

Multi-category classification based on ECOC approach using sub-categories

Leona Suzuki, Haruka Yamashita and Masayuki Goto

G1- 6(PAPER ID: 238)

Competitive advantages of hair salon business influencing on consumer behavior

Noriyuki Suyama and Takashi Namatame

G2: Health Care System I

ROOM: Meeting Room (CR403) (4F)　TIME: Dec. 8　1520-1650
CHAIR: Tien-Lung Sun

G2-1 (PAPER ID: 83)

Construct a discriminative system for cardiopathy using electrocardiogram data

Chih-Hung Jen, Yu-Ming Lu, Yi-Min Huang and Bo-Hua Lian

G2-2 (PAPER ID: 237)

Development of a facial expression training system using muscle potential measurement and image processing

Masahiro Yamada, Yasuhiro Ogoshi, Sakiko Ogoshi, Tomohiro Takezawa and Yoshinori Mitsuhashi

G2-3 (PAPER ID: 239)

Examining concentration using electroencephalography and electromyography

Hisashi Goto, Yasuhiro Ogoshi, Sakiko Ogoshi, Masahiro Asahara, Kinuyo Aoyama and Yutaka Fujii

G2-4 (PAPER ID: 275)

The development of the bio-feedback system to support the good sleep and daily life

Naoya Nisizuka,　Kazuhiro Nakagawa, Sakiko Ogoshi, Yasuhiro Ogoshi, Yotu Saitou, Takahiro Komatsu, Akio Nakai and Yoshinori Mituhasi

G2-5 (PAPER ID: 235)

Knowledge management for intelligent fitness planning service in a Cloud

Chuan-Jun Su, Yi-Tzy Tang and Chen-Yi Yang

G2-6 (PAPER ID: 340)

Interactive visualization to support fall risk assessment for community-dwelling elderly

Chien-Hua Huang and Tien-Lung Sun

G3: Special Session-Application of IT to Tourism and

Education ROOM: Meeting Room (CR403) (4F)
TIME: Dec. 9　0900-1030
CHAIR: Masahide Yamamoto

G3-1 (PAPER ID: 93)

A study on utilizing mobile phone users' location data in tourism

Masahide Yamamoto

G3-2 (PAPER ID: 118)

A comparative study on hospitality in the urban and rural world

Yuria Kuga, Emi Kajita, Ibuki Kuwano and Masahide Yamanoto

G3-3 (PAPER ID: 173)

Factors of increasing attractiveness of tourism-related Facebook pages

Ayako Sawada and Taketoshi Yoshida

G3-4 (PAPER ID: 123)

Asymmetry of information and hospitality in the tourism industry

Yuna Kose, Ryuta Toda, Kaho Sanda, Tsubasa Iyoda and Masahide Yamamoto

G3-5 (PAPER ID: 138)

Factors impacting travelers' sightseeing intentions

Daiki Noguchi, Haruka Goto, Takahiro Ozeki and Masahide Yamamoto

G3-6 (PAPER ID: 231)

Development of educational programs for Global-PLM (product lifecycle management) producer through action project group activities by industry-university cooperation

Kin'ya Tamaki, Young Won Park, Takeshi Abe and Satoshi Goto

G4: Inventory Modeling and Management

ROOM: Meeting Room (CR403) (4F) TIME: Dec. 9   1050-1205
CHAIR: The Jin Ai

G4-1 (PAPER ID: 60)

Optimal sales strategy for seasonal demand with product life cycle considering markdown sales and price sensitivity
Yuta Toki and Etsuko Kusukawa

G4-2 (PAPER ID: 174)

Relationship between fluctuation stock and safety stock
Tomoaki Yamazaki and Keisuke Shida

G4-3 (PAPER ID: 247)

The shortage study of EOQ model with defective and reworked items
Chiang-Sheng Lee, Hsine-Jen Tsai and Christian Bunjamin

G4-4 (PAPER ID: 416)

Forecasting of purchase dependent power demands using vector autoregressive model as basis for inventory policy in a retailer
The Jin Ai, Ririn Diar Astanti,   Maria Monika Wardoyo and Huynh Trung Luong

G4-5 (PAPER ID: 454)

Supply chain replenishment for multi-period newsvendor products
Chun-Chin Wei and Liang-Tu Chen

G5: Data Mining II

ROOM: Meeting Room (CR403) (4F) TIME: Dec. 9   1330-1500

CHAIR: Xiao Xiao

G5-1 (PAPER ID: 273)

A study on selecting similar projects in software effort estimation
Kosuke Ito, Xiao Xiao   and Hisashi Yamamoto

G5-2 (PAPER ID: 276)

Forecasting in thirty minutes amount of PV power generation using neural network
Katsutoshi Maeda, Takahiro Komatsu, Takeaki Katsuki,
Yasutoshi Takemoto, Sakiko Ogoshi and Osamu Haraguti

G5-3 (PAPER ID: 290)

A proposal of document recommendation based on topic model
Yusei Yamamoto, Kenta Mikawa and Masayuki Goto

G5-4 (PAPER ID: 294)

A coupon effect model considering behavior data
Kaitaro Endo, Haruka Yamashita and Masayuki Goto

G5-5 (PAPER ID: 295)

Modeling customer purchase behavior based on page transitions by latent class model for customer segmentation
Yuki Matsuzaki, Kenta Mikawa and Masayuki Goto

G5-6 (PAPER ID: 328)

An ensemble strategy for multi-step-ahead time series forecasting
JunYong Jeong and Chi-Hyuck Jun

G6: Production and Operations Management III
ROOM: Meeting Room (CR403) (4F) TIME: Dec. 9 1520-1650

CHAIR: Jia-Nian Zheng

G6-1 (PAPER ID: 304)
Integration of bucket brigades and worker collaboration on discrete work stations
Aditya Tirta Pratama, Katsuhiko Takahashi, Katsumi Morikawa, Keisuke Nagasawa and Daisuke Hirotani

G6-2 (PAPER ID: 472)
Between the two parallel computing genetic algorithms – an example of scheduling
Jia-Nian Zheng

G6-3 (PAPER ID: 139)
Design the value stream mapping for the green manufacturing a case study: Scancom Vietnam limited company
Hoang Huy Nguyen, Vinh Truc Do and Phuong Thao Dao

G6-4 (PAPER ID: 141)
Modeling lean supply chain using simulation
Ma.Teodora E. Gutierrez

G6-5 (PAPER ID: 309)
A job rescheduling model considering cutting tool failure and cutting tool life for a flexible manufacturing system
Ari Setiawan, Rachmawati Wangsaputra, Abdul Hakim Halim and Yatna Yuwana Martawirya

G6-6 (PAPER ID: 516)
The optimization of inventory control for two-seasons demand and known price increase
Kinley Aritonang, Romy Loice and Feby Tiffany

G7: Data Mining III

ROOM: Meeting Room (CR403) (4F) TIME: Dec. 10   0800-0930
CHAIR: Chi-Hyuck Jun

G7-1 (PAPER ID: 333)
Data clustering with principle component for the complete Must-Link constraints
Chao-Lung Yang, Nguyen Thi Phuong Quyen and Maisyatus Suadaa Irfana

G7-2 (PAPER ID: 359)
Integrated decision model for direct marketing: a case study on catalog mailing
Jen-Ying Shih and Jin-Ru Huang

G7-3 (PAPER ID: 379)
Feature selection based on rough set theory using feature space decomposition for mixed-type data classification
Kyung-Jun Kim and Chi-Hyuck Jun

G7-4 (PAPER ID: 386)
A study of extended RFM analysis based on PLSA model for purchase history data
Qian Zhang, Haruka Yamashita, Kenta Mikawa and Masayuki Goto

G7-5 (PAPER ID: 506)
Effect of nationality and gender differences on postural stability while texting
Nurul Retno Nurwulan and Bernard C. Jiang

G7-6 (PAPER ID: 507)
Data mining framework for identifying crime patterns using unsupervised learning: focusing on assault and theft
Seunghwan Bang, Minchul Lee, Bongjun Ji, Jeongbin Kim, Hyunseop Park and Hyunbo Cho

G8: Quality Engineering and Management II

ROOM: Meeting Room (CR403) (4F)

TIME: Dec. 10   1050-1205

CHAIR: Ruey-Huei Yeh

G8-1 (PAPER ID: 481)

Sustained quality award status in developing country: a study on the Dubai quality award recipients
Mehran Doulatabadi, Sha'ri M. Yusof and KuanY. Wong

G8-2 (PAPER ID: 98)

Academic institution's performance based on Malcolm Baldrige education criteria for performance excellence: an assessment
Arriane A. Palisoc

G8-3 (PAPER ID: 112)

The selection scheme on replacement policies for repairable two-component systems
Tzu-Chun Hsu, Ya-Han Yu, Chun-Wen Chiu and
Ruey-Huei Yeh

G8-4 (PAPER ID: 284)

Reducing defective alignment of laser drilling process
Tzu-Chi Hsu and Chen-ju Lin

H1: Production and Operations Management I

ROOM: Meeting Room (CR405) (4F)TIME: DEC. 8   1330-1500
CHAIR: Jun Yamaguchi

H1-1 (PAPER ID: 134)

A study on the effect of mixing rate of defective products on defect detection in visual inspection

Ryosuke Nakajima †, Syuhei Ando, Takuya Hida and Toshiyuki Matsumoto

H1-2 (PAPER ID: 92)

Impacts of capital constraints on retailer's integrated ordering and pricing policies towards seasonal products

Jinzhao Shi, Richard Y.K. Fung, Ju'e Guo and Osamu Ichikizaki

H1-3 (PAPER ID: 97)

Process standardization in the upper making section of a shoe manufacturing company through ProModel simulation

Jasy M. Bangayan, Joana Marie C. Beraquit, Jericho U. Casupang, Jenella Lim, Kevin Lloyd V. Ubaldo, Michael Angelo M. Villamor, Maricar M. Navarro, and Mel Benjamen A. Torres

H1-4 (PAPER ID: 117)

Effects of 5s methodology for sustaining kaizen activity – case analysis on standstill conditions

Jun Yamaguchi and Hirokazu Kono

H1-5 (PAPER ID: 40)

Job productivity enhancement through plant facility layout improvement in company XYZ using promodel simulation

Yoshiki Kurata †, Joshua Abano, Danielle Samantha Gundayao, John Paulo Rosuelo, and Jocelyn Abad

H2: EAWIE-Production and Operations Management

ROOM: Meeting Room (CR405) (4F) TIME: Dec. 8   1520-1650
CHAIR: Koichi Nakade

H2-1 (PAPER ID: 114)
Performance evaluation of pull-type control mechanisms for two-stage production systems with advance demand information
Koichi Nakade†, Syuhei Ando and Ryosuke Nakatsuka

H2-2 (PAPER ID: 321)
Factor screening method for quantile-based performance measure
Ying-Hsuan Lu, Kuo-Hao Chang, Liam Y. Hsieh, Yin-Jing Tien and Yi-Chang Chen

H2-3 (PAPER ID: 389)
A study on crisis management strategy: a case of Uni-President's product management
Chung-Cheng Tu, Su-Mei Chiu † and Hue-Mei Liang †

H2-4 (PAPER ID: 282)
Optimal inventory policy for items with power demand, backlogging and discrete scheduling period
Joaquín Sicilia †, Manuel González-de-la-Rosa, Luis A. San-José and Jaime Febles-Acosta

H2-5 (PAPER ID: 281)
An EOQ model with non-linear holding cost and partial backlogging under price and time dependent demand
Luis A. San-José, Joaquín Sicilia †, Manuel González-de-la-Rosa and Jaime Febles-Acosta

H2-6 (PAPER ID: 39)
Garment sewing process delay problem: worker performance efficiency improvement in a Philippine garment company
Yoshiki B. Kurata †, Kris Allen C. Cruz, Danielle Samantha U. Gundayao, Karl Ernest B. Dacumos, Erycka Joie S. Ladanga, and Maricar M. Navarro

H3: Special Session-Physical Function and Ergonomics I

ROOM: Meeting Room (CR405) (4F) TIME: Dec. 9   0900-1030
CHAIR: Hitoshi Nishi

H3-1 (PAPER ID: 120)
HMD system for visual field impaired students

Hiroyuki Kawabe†, Yuko Shimomura, Hidetaka Nambo, Shuichi Seto, and Hiroshi Arai

H3-2 (PAPER ID: 124)
The support system for the night blindness student using night vision camera

Yuko Shimomura and Hiroyuki Kawabe, Shuichi Seto, Hiroshi Arai and Hidetaka Nambo

H3-3 (PAPER ID: 126)
Support system of active learning for hearing impaired student by using head mounted display

Shuichi Seto†, Hiroyuki Kawabe1 and Yuko Shimomura2 and Hidetaka Nambo

H3-4 (PAPER ID: 129)
Visualization of environmental sound for the hearing impaired -support by manga technique-

Hiroshi Arai †, Hidetaka Nambo, Yuko Shimomura, Hiroyuki Kawabe and Shuichi Seto

H3-5 (PAPER ID: 178)
Development of sleep disorder detection system ~ as part of development of clinical depression diagnosis support system for solitary person ~

Takuya Tajima†, Takehiko Abe and Haruhiko Kimura

H3-6 (PAPER ID: 185)
Developed the design parameters of hand measurement and grip strength for handbrake and grip handle of motorcycle

Po-Hsiang Liu, Sin-Long Jhuang, Tu-Chuan Wang, and Hung-Jen Chen

H4: Special Session-Physical Function and Ergonomics II

ROOM: Meeting Room (CR405) (4F) TIME: Dec. 9　1050-1205
CHAIR: Sakiko Ogoshi

H4-1 (PAPER ID: 113)

A study of a simulated pulling task

Cannan Yi, Kai Way L, Fan Tang, Hong Hu, Zejun Xie, Qiling Hu, Chengfeng Chen and Dongyang Qiu

H4-2 (PAPER ID: 221)

Ergonomics evaluation of lever-operated knapsack sprayer

Juan C. Tecson

H4-3 (PAPER ID: 143)

Human's weight perception from container handles

Shu Yi Zhou and Kai Way Li

H4-4 (PAPER ID: 233)

The selection of road transport service provider via analytical hierarchy process: a case study

Natanaree Sooksaksun† and Tanutcha Watthanalapmongkol

H4-5 (PAPER ID: 421)

A study on the estimation method of the resident's location using the plant bioelectric potential

Kohei Harutake, Hidetaka Nambo and Haruhiko Kimura

H5: Production and Operations Management II

ROOM: Meeting Room (CR405) (4F)   TIME: Dec. 9   1330-1500
CHAIR: Ping-Chen Chang

H5-1 (PAPER ID: 147)
Optimization of warehouse operations for Logistics Company in the Philippines

Stephanie B. Duque, Maricar M. Navarro†, Bernaliza O. Verrey, Jovale C. Vitao and Sherilyn M. Zantua

H5-2 (PAPER ID: 220)
Production planning in virtual factory with Material-Inventory adjustment by means of transportations

Jimaporn Pongvisutisak, Issarapong Khuankrue, and Yasuhiro Tsujimura

H5-3 (PAPER ID: 287)
Reliability with limited buffer capacity for a multistate manufacturing network with two production lines

Ping-Chen Chang† and Chia-Chun Wu

H5-4 (PAPER ID: 298)
Modified work rule for Y-shaped self-balancing line with walk-back and travel time

Daisuke Hirotani†, Katsumi Morikawa, Katsuhiko Takahashi and Keisuke Nagasawa

H5-5 (PAPER ID: 362)
Modelling the yield learning process of semiconductor product using an ANN

Toly Chen and Yao-Lei Wang

H5-6 (PAPER ID: 450)
Identification and time-series evaluation of stakeholders: a strategic approach for stakeholder management

Chisa Ogawa and Testuro Seki

H6: EAWIE-Optimization Technique

ROOM: Meeting Room (CR405) (4F) TIME: Dec. 9   1520-1650
CHAIR: Ching-Jung Ting

H6-1 (PAPER ID: 255)

On the convex relaxation for linear complementarity constraints

Trang T. Nguyen, Jean-Philippe P. Richard and Mohit Tawarmanali

H6-2 (PAPER ID: 260)

Parallel algorithm for combination of SQP and PSO

En-Cheng Chang and Yu-Ching Lee

H6-3 (PAPER ID: 456)

A heuristic optimization approach for hmm in machinery prognostics and health management

Wen-Zhu Liao †, Shi-Hao Cui and Dan Li

H6-4 (PAPER ID: 479)

Job scheduling for hybrid assembly differentiation flowshop to minimize total actual flow time

Rahmi Maulidya†, Rachmawati Wangsaputra, Suprayogi,
and Abdul Hakim Halim

H6-5 (PAPER ID: 207)

Particle swarm optimization solving various capacitated P-median problem

Phajongjit Pijitbanjong, Rapeepan Pitakaso† and Anurak Chaiwichian

H6-6 (PAPER ID: 49)

Particle swarm optimization for aggregators in smart grids demand response program

Nattachat Wisittipanit and Warisa Wisittipanich†

H7: Production and Operations Management IV

ROOM: Meeting Room (CR405) (4F) TIME: Dec. 10   0800-0930
CHAIR: Zahari Taha

H7-1 (PAPER ID: 466)

The study of parameter optimization for screen printing using consistent fuzzy preference relations and Taguchi methods

Chui-Yu Chiu, Ying-Hao Lin, Pei-Yun Wang, Yen-Wen Kuo and Shu-Ting Chou

H7-2 (PAPER ID: 514)

WIP management systems for BullWIP management in semiconductor fabrication foundry

M.Z. Mohd Darudin, M.A. Chik, Nor'Azah Khusairi, Lim Bee Lan,

Zahari Taha and Hasbullah Ashaari

H7-3 (PAPER ID: 484)

Frugal innovation: a case study of internet based customization implementation in small and medium enterprises

Risdiyono

H7-4 (PAPER ID: 227)

Revisiting the leagility supply chain migratory model: the case of halal food

Mohd Helmi Ali and Kim Hua Tan

H7-5 (PAPER ID: 412)

The study of total-removal-volume (TRV) feature in handling the flexible machining shapes generation

Mohammad M. Isnaini ,Wisnu Aribowo , Anas Ma`ruf

and Keiichi Shirase

H8: Financial Models and Engineering

ROOM: Meeting Room (CR405) (4F) TIME: Dec. 10   1050-1205
CHAIR: Woojin Chang

H8-1 (PAPER ID: 36)

Credit scoring model for business start-ups
Kenzo Ogi, Yuichi Utsumi and Norio Hibiki

H8-2 (PAPER ID: 341)

Exploring the underlying factors of single financial time series using EEMD-ICA based analysis method
Lu Xian, Kaijian He, George Mang and Kin Keung Lai

H8-3 (PAPER ID: 367)

Capital structure of Chinese listed companies after the 2008 financial crisis: reliably important determinants of financial leverage

Łukasz Stankiewicz and Jen-Ying Shih

H8-4 (PAPER ID: 425)

Asymmetric multi-fractality and market efficiency in stock indices of G-2 countries
Minhyuk Lee, Jae Wook Song, Ji Hwan Park and Woojin Chang

H8-5 (PAPER ID: 476)

Visualization of risk appetite framework development process
Yuko Iwasaki and Kenji Watanabe

I1: Sustainable Management

ROOM: Meeting Room (CR406)　(4F)

TIME: Dec. 8　　1330-1500

CHAIR: Kuo-Ping Lin

I1-1 (PAPER ID: 34)

Service quality of water and sewerage companies

Abrari Salleh and Sha'ri Mohd Yusof

I1-2 (PAPER ID: 102)

The regional initiative for sustainable woody biomass energy business - a case study on Maniwa area, Japan

Yukako Harata, Nobutaka Odake and Norio Tokumaru

I1-3 (PAPER ID: 160)

Applying fuzzy DEMATEL with Yager's t-norms for green supply chain management

Kuo-Ping Lin and Yu-Ting Lin

I1-4 (PAPER ID: 380)

The relationship between investor behavior and companies' response strategies in the climate change prevention activities research program

Ryota Oki, Akira Tsuboi and Masako Takahashi

I1-5 (PAPER ID: 144)

A fuzzy approach for sustainable seaport-dry port network design

Yu-Chung Tsao and Vo V. Thanh

I2: Supply Chain Management I

ROOM: Meeting Room (CR406)　(4F)

TIME: Dec. 8　1520-1650

CHAIR: YoungSu Yun

I2-1 (PAPER ID: 111)

Active response of strategic consumers to stockout
Berdymyrat Ovezmyradov and Hisashi Kurata

I2-2 (PAPER ID: 127)

Reconsideration of a negotiation procedure for a buyback contract in a supply chain
Shin Tsurui, Yasuhiko Takemoto, Ikuo Arizono and Ryosuke Tomohiro

I2-3 (PAPER ID: 146)

A continuous approximation approach for Seaport- Dry port network design
Yu-Chung Tsao and Thuy Linh Vu

I2-4 (PAPER ID: 157)

Integrated supply chain design problem with various handling processes
Young Su Yun,　Anudari Chuluunsukh, Xing Chen and Mitsuo Gen

I2-5 (PAPER ID: 159)

Closed-loop supply chain design for production system using part and module
Xing Chen, Anudari Chuluunsukh, Young Su Yun and Mitsuo Gen

I2-6 (PAPER ID: 199)

Demand driven inventory replenishment strategy combining demand information by CUSUM in semiconductor industry
Yung-Chia Chang, Kuo-Hao Tsao and Chien-Hua Liu

I3: Decision Support System and Expert System

ROOM: Meeting Room (CR406)   (4F)

TIME: Dec. 9   0900-1030

CHAIR: Chieh-Yuan Tsai

I3-1 (PAPER ID: 301)

An implicit rating based product recommendation system

Chieh-Yuan Tsai and Sih-Wei Shen

I3-2 (PAPER ID: 374)

Comparison of different sales forecasting techniques for computer servers

I-Fei Chen, Tian-Shyug Lee, Ming Gu and Chi-Jie Lu

I3-3 (PAPER ID: 415)

A buyer vendor coordination model

Ririn Diar Astanti, The Jin Ai, Dah-Chuan Gong and Huynh Trung Luong

I3-4 (PAPER ID: 430)

Implementation of machine learning C4.5 algorithm to forecast regional economic development classification

Hendra M Setiawan and Aditya Wedha

I3-5 (PAPER ID: 308)

The development of behavioral understanding support system for children with developmental disorders

Sakiko Ogoshi, Toru Saitou , Yuuiti Takaku , Yasuhiro Ogoshi , Masahiro

Asahara ,Yoshinori Mituhasi, Sinzou Isigami, Seiichiro Miura and Takashi Oyabu.

I4: Transportation

ROOM: Meeting Room (CR406)   (4F)

TIME: Dec. 9   1050-1205

CHAIR: Ching-Jung Ting

I4-1 (PAPER ID: 490)

Optimization of the ratio of transport mode for international transportation

Araoaka Kenji, Tanaka Kenji and Heng Wang

. I4-2 (PAPER ID: 265)

Heterogeneous fleet vehicle routing problem in delivering industrial gas

Ho Thanh Phong and Nguyen Minh Hien

I4-3 (PAPER ID: 315)

Scheduling quay crane and yard equipment: a case study of terminal in central region

Ho Thanh Phong and Son Nguyen Hoang

I4-4 (PAPER ID: 322)

Multimodal transportation optimization for an automobile production in Vietnam

Huỳnh Gia Bảo Ngọc and Hồ Thanh Phong

I5: Logistics Management

ROOM: Meeting Room (CR406)   (4F)
TIME: Dec. 9   1330-1500
CHAIR: Carles Sitompul

I5-1 (PAPER ID: 108)

Improving reverse logistics performance in e-retailing: a consumer's perspective

Erika Fatma and Winanda Kartika

I5-2 (PAPER ID: 169)

An optimization procedure to solve forward-reserve allocation problem with (s, S) policy

Takashi Irohara and Keisuke Nagasawa

I5-3 (PAPER ID: 254)

A robust optimization model for lot sizing with dynamic demands

Aurora Rostenila and Carles Sitompul

I5-4 (PAPER ID: 346)

Supply chain planning with cross-echelon reverse logistics using data envelopment analysis and particle swarm optimization

Z.H. Che, K.H. Hsiao, J.Y. Chang and C.L. Chen

I5-5 (PAPER ID: 461)

Optimizing liner shipping network considering empty container repositioning

Heng Wang and Kenji Tanaka

I5-6 (PAPER ID: 522)

Establish performance assessment mechanism for reverse logistic of leather industry by cost-benefit approach

Chu-Yao Sheng, Chang-Ya Ting, Cheng-Feng Tsung and Wu-Mei Fang

I6: Supply Chain Management III

ROOM: Meeting Room (CR406)   (4F)
TIME: Dec. 9   1520-1650
CHAIR: Mu-Chen Chen

I6-1 (PAPER ID: 464)

Optimizing vehicle routing in the food Cross-Docking system

Mu-Chen Chen, Yu-Hsiang Hsiao, Arkojyoti Basak and Manoj Kumar Tiwari

I6-2 (PAPER ID: 317)

Supply chain network designing strategy: a case study of lily flower

Ho Thanh Phong   and   Le Thi Thy

I6-3 (PAPER ID: 334)

Multi-objective supply chain design modeling for fresh fruit products in Vietnam

Nhieu Nhat Luong   and   Ho Thanh Phong

I6-4 (PAPER ID: 335)

The relationship among creative development activities, mentoring and knowledge management and technical knowledge transfer effectiveness: An empirical study

Tsuang Kuo, Chih-Ta Chen, Iuan-yuan Lu and Jung-Chu Ho

I6-5 (PAPER ID: 349)

Supply chain design for agriculture product in Viet Nam: A case study of Sturgeon in Kon Tum province

Dao Anh Kim Ngan   and   Ho Thanh Phong

I7: Supply Chain Management IV

ROOM: Meeting Room (CR406)　(4F)

TIME: Dec. 10　0800-0930

CHAIR: Udom Janjarassuk

I7-1 (PAPER ID: 401)

An optimization approach for farmer selection and allocation in agricultural supply chain

Natchanon Benjamanukul, Udom Janjarassuk and Kanokporn Rienkhemaniyom

I7-2 (PAPER ID: 428)

Triple bottom line sustainibility analysis of a supply chain

Muhammad Ridwan Andi Purnomo, Kido Hernowo, Agung Aulya Perdana Tanjung, Azel Adityaand and Zahari Taha

I7-3 (PAPER ID: 509)

Using Latin hypercube sampling to improve solution for a supply chain network design problem

Kantapit Kaewsuwan, Udom Janjarassuk, Kanokporn Rienkhemaniyom and Chumpol Yuangyai

I7-4 (PAPER ID: 354)

Supply chain design for the agricultural products in Vietnam: a case study of Sim Wine in Kon Tum Province

Le Thi Kim Trang and Ho Thanh Phong

J1: Other Related Topics in IEMS I

ROOM: Rosewood (4F) TIME: Dec. 8 1330-1500
CHAIR: Masahiro Shibuya

J1-1 (PAPER ID: 81)

Inter-group knowledge sharing in enhancing group learning

Ceicalia Tesavrita, Kadarsah Suryad, Iwan Inrawan Wiratmadja and Rajesri Govindaraju

J1-2 (PAPER ID: 105)

Hybrid communication model:

project risk analysis of IS development by using multi-agent

simulation technique

Shin-nosuke Yokota and Tetsuro Seki

J1-3 (PAPER ID: 156)

Development of Komatsuna production management system in small size of farming

Taiki Nasu, Hiroshi Shimizu, Takuya Hida and Toshiyuki Matsumoto

J1-4 (PAPER ID: 163)

Estimation of volatility for Hong Kong growth

enterprise market

George Mang, Jiangze Du and Kin Keung Lai

J1-5 (PAPER ID: 191)

A study on continuous improvement activity support by the IoT technique

Masahiro Shibuya, Kenichi Iida , Toshifumi Sakai and Koki Mikami

J1-6 (PAPER ID: 202)

A probe for organizational dynamics

Shin-Guang Chen

J2: EAWIE-Logistics Management I

ROOM: Rosewood (4F) TIME: Dec. 8 1520-1650
CHAIR: Imam Djati Widodo

J2-1 (PAPER ID: 251)

An ant colony optimization for the capacitated arc routing problem

Han-Shiuan Tsai and Ching-Jung Ting

J2-2 (PAPER ID: 288)

An analysis of multi-objective decision problem in humanitarian supply chains

Takeo Kobayashi , Yacob Khojasteh and Yasutaka Kainuma

J2-3 (PAPER ID: 329)

A simulation-based testbed for evaluating an appointment system in port terminals

Vu Duy Duong, Hyo Jae Kim, Lin Gui and Kap Hwan Kim

J2-4 (PAPER ID: 331)

A heuristic algorithm for generating stowage plans

Cao Hoang Tuan, Sejin Park, Soondo Hong and Kap Hwan Kim

J2-5 (PAPER ID: 427)

The analysis of supplier selection method with interdependent criteria

Imam Djati Widodo and Budi Baharudin

J2-6 (PAPER ID: 468)

Optimization of distribution route selection based on combination of time and distance

Imam Djati Widodo, Ali Parkhan and Mahmud Basuki

J3: Quality Engineering and Management I

ROOM: Rosewood (4F) TIME: Dec. 9   0900-1030

CHAIR: Yasuhiko Takemoto

J3-1 (PAPER ID: 30)

Double EWMA run-to-run controller for high mixed product mode

Shu-Kai S. Fan and Yu-Ling Liao

J3-2 (PAPER ID: 45)

Optimal process mean setting under the quality and cost

Chung-Ho Chen

J3-3 (PAPER ID: 80)

Verification of product performance management by process capability index

Akimasa Otsuka

J3-4 (PAPER ID: 106)

A study of method for tracing state transition on time series of process variance

Yasuhiko Takemoto and Ikuo Arizono

J3-5 (PAPER ID: 241)

Encapsulation process study and yield model for smart phone manufacturing

Shu-Hua Li, Chien-Yi Huang and Gwo-Donq Wu

J3-6 (PAPER ID: 259)

Using Confidence intervals of index cpp to construct an evaluation system for manufacturers

Cheng-Fu Huang, Wan-Yu Lan and Kuen-Suan Chen

J4: Optimization Technique

ROOM: Rosewood (4F) TIME: Dec. 9   1050-1205

CHAIR: Kung-Jeng Wang

J4-1 (PAPER ID: 215)

Multi-objective artificial bee colony with multi-movement strategies for solving multi-objective optimization problems

Sheng-Ta Hsieh and Chun-Ling Lin

J4-2 (PAPER ID: 299)

Inverse optimization for utility measurement

Yi-Hau Huang and Yu-Ching Lee

J4-3 (PAPER ID: 342)

Integrating simulation and optimization for optimizing hospital layout: case study of hospital 115

Nguyen Truong Nguyen, Ho Thanh Phong and Ho Doan Quoc

J4-4 (PAPER ID: 291)

A new algorithm hybridizing differential evolution with particle swarm optimization

Jin Xue, K-J. Wang, Phuc Hong Nguyen, and Shaw Yi. Wu

J4-5 (PAPER ID: 409)

Solving the capacitated facility location problem using a cuckoo search

Yu-Min Chiang and Chih-Hao Chou

J5: Other Related Topics in IE/MS III

ROOM: Rosewood (4F) TIME: Dec. 9 1330-1500

CHAIR: Masahiro Arakawa

J5-1 (PAPER ID: 211)

Scheduling method for simultaneous reduction of Makespan and weak points of workers

Yukiko Kanbara, Masahiro Arakawa and Takumi Wada

J5-2 (PAPER ID: 212)

A study of design method of process and layout of parts and facilities for cell production

Mizuki Ohashi, Masahiro Arakawa, Takumi Wada and Keita Sugiura

J5-3 (PAPER ID: 213)

Design of educational program for management of market, procurement, and production —case study of educational program for factory management in university

Masahiro Arakawa, Takumi Wada, Jing Sun, Ichiro Koshijima and Yoshihiro Hashimoto

J5-4 (PAPER ID: 234)

An optimal model for integrating robust parameter and tolerance designs for asymmetric quality characteristic

Wildan Trusaji, Muhammad Akbar and Dradjad Irianto

J5-5 (PAPER ID: 283)

Shift scheduling model considering workload for housekeeping department

Jockvom, Deny Ratna Yuniartha, Ign. Luddy Indra Purnama, and Luciana Triani Dewi

J5-6 (PAPER ID: 310)

Word acquisition of Japanese classical literature using state transition model

Makoto Suzuki, Bin Xu, Naohide Yamagishi and Masayuki Goto

J6: EAWIE-Logistics Management II

J6-1 (PAPER ID: 47)

A study on the strategies and recommendations for developing circular economy in Taoyuan City, Taiwan

An-Pi Chang , Chien-Hwa Yu, Wen-Tsan Cheng and Jyh-Dong Lin

J6-2 (PAPER ID: 285)

Optimal routing problem for responders in emergency situations

Sungwoo Kim, Youngchul Shin, Seohyeon Choi and Ilkyeong Moon

J6-3 (PAPER ID: 305)

A new heuristic method for solving the bi-objective period traveling salesman problem with tour balancing

I-Ming Chao and Chih-Chuan Chien

J6-4 (PAPER ID: 381)

The pickup and delivery multi-depot vehicle routing problem

Parida Jewpanya, Yu-Wei Chen and Vincent F. Yu

J6-5 (PAPER ID: 434)

Optimal scheduling of airport's runway operations a case study in Tan Son Nhat international airport

Ho Thanh Phong and Nguyen Van Hai

J7: Other Related Topics in IEMS V

ROOM: Rosewood (4F) TIME: Dec. 10   0800-0930
CHAIR: Miao-miao Li

J7-1 (PAPER ID: 417)

Imaging with an ultra-high-speed video camera working at 20 mega-frames per second

Son V.T. Dao and Takeharu G. Etoh

J7-2 (PAPER ID: 467)

In Search for a public servant competency model: a literature review

Joe Monang, Iman Sudirman and Joko Siswanto

J7-3 (PAPER ID: 510)

A flexible period multi-objective multi-mode networking model for post-disaster relief goods distribution

Michael Ang, Jensen Duyag, Jayne San Juan, Kimberly Tee, Dr. Eppie Clark

J7-4 (PAPER ID: 515)

The LMEs R&D volatility, innovation output and business performance in Chinese high-tech industry

Miao-miao Li, Hai-bo Li, Hai-ning Wang and Zuo-han Luo

J7-5 (PAPER ID: 186)

Relationships among service quality, customer satisfaction and customer loyalty: a case study on mobile shopping APPs

Tsuang Kuo, Gwo Yang Tsai, Iuan-yuan Lu and Jung-Sen Chang

J7-6 (PAPER ID: 86)

Occupational health problems and issues of sleep deprivation among inbound call center agents using structural equation modelling

Yoshiki B. Kurata and Joshua Gilmore R. Peralta