

PROGRAM BOOK

The International Conference on Industrial and System Engineering

29 - 31 August 2017 | Denpasar, Bali
Sanur Paradise Plaza Hotel & Suites

www.iconise.its.ac.id

Organized by:



ITS
Institut
Teknologi
Sepuluh Nopember

Department of Industrial Engineering
Institut Teknologi Sepuluh Nopember



Parallel Sessions

Parallel Session 1, 29 August 2017, 13:00-15:00

No	Title	Author(s)
Room 1		
1	Developing Cross Entropy Genetic Algorithm for solving Two Dimensional Loading Heterogeneous Fleet Vehicle Routing Problem (2L-HFVRP)	Dominico Laksma Paramestha, Budi Santosa
2	Solving the Container Stowage Problem (CSP) Using Particle Swarm Optimization (PSO)	Matsaini, Budi Santosa
3	A Meta-heuristic Method for Solving Scheduling Problem: Crow Search Algorithm	Antono Adhi, Budi Santosa and Nurhadi Siswanto
4	Comparing Genetic Algorithm and Particle Swarm Optimization for solving Capacitated Vehicle Routing Problem	Titi Iswari and Anna Maria Sri Asih
5	A Hybrid Symbiotic Organisms Search Algorithm with Variable Neighbourhood Search for Solving Symmetric and Asymmetric Traveling Salesman Problem	Muhammad Isnaini Hadiyul Umam and Budi Santosa
6	Discrete Particle Swarm Optimization To Solve Multi-Objective Limited-Wait Hybrid Flow Shop Scheduling Problem	Budi Santosa , Nurhadi Siswanto, Fiqihesa Putamawa
7	Simulated Annealing with Restart Strategy for the Blood Pickup Routing Problem	Vincent F. Yu, Titi Iswari, Nur Mayke Eka Normasari, Anna Maria Sri Asih and Hsiu-I Ting
Room 2		
1	Single Stage Queueing/Manufacturing System Model that Involves Emission Variable	Petrus Setya Murdapa, I Nyoman Pujawan, Putu Dana Karningsih and Arman Hakim Nasution
2	Cost Analysis of An Electricity Supply Chain Using Modification of Price Based Dynamic Economic Dispatch in Wheeling Transaction Scheme	Wahyuda, Budi Santosa and Ahmad Rusdiansyah
3	Power Plant Allocation in East Kalimantan Considering Total Cost and Emissions	Muslimin and Dutho Suh Utomo
4	Shift Scheduling Model Considering Workload and Worker's Preference for Security Department	Agustina Herawati, Deny Ratna Yuniartha, Ignatius Luddy Indra Purnama and Luciana Triani Dewi
5	Split Delivery Vehicle Routing Problem with Time Windows: A Case Study	Effi Latiffianti , Nurhadi Siswanto, and Rosa A Firmandani
6	Optimization of Municipal Waste Collection Scheduling and Routing Using Vehicle Assignment Problem (Case Study of Surabaya City Waste Collection)	Mukh. Nasir Ramdhani, Imam Baihaqi, Nurhadi Siswanto
7	Implementation of System Dynamic Simulation Method to Optimize Profit in Supply Chain Network of Vegetable Product	Ishardita Tama, Zulfikar Akbar and Agustina Eunike
Room 3		
1	A Review of Agent-Based Modeling Approach in The Supply Chain Collaboration Context	Niniet Arvietrida
2	Shallot Supply Decision Model: The Case of Indonesia	Nurilia Fitri Prabawati, I Nyoman Pujawan and Erwin Widodo
3	The Effect of Supply Disruptions on Customer Service Levels: a Case for Delivering Fertilizer Products using Maritime Transportation	Nurhadi Siswanto, Uly Kurniawati, Stefanus Eko Wiratno and Ahmad Rusdiansyah
4	A Joint Replenishment Inventory Model with Lost Sales	Nadia Laksita Devy, The Jin Ai and Ririn Diar Astanti
5	Model of Refrigerated Display-Space Allocation for Multi Agro-Perishable Products Considering Markdown Policy	Dyah Satiti, Ahmad Rusdiansyah

Parallel Session 1, 29 August 2017, 13:00 – 15:00

No	Title	Author(s)
Room 3		
6	A Modeling of Dynamic Storage Assignment for Order Picking in Beverage Warehousing with Drive-in Rack System	M Zaky Hadi, Taufik Djatna and Sugiarto
7	Model of Delivery Consolidation of Spare Part : Case Study of An Oil and Gas Company	Dody Hartanto and Amedea Agustinita
Room 4		
1	Innovation in Healthcare Services – Creating A Combined Contingency Theory and Ecosystems Approach	Per Engelseth and Duangpun Kritchanhai
2	Using DEMATEL approach to develop relationships of performance indicators on sustainable service only supply chain performance measurement	Eko Budi Leksono, Suparno and Iwan Vanany
3	Evaluating Customer Satisfaction and Service Quality Using Servqual Model in The Courier Service Delivery (CSD) Provider (Pilot Study: Surabaya City, Indonesia)	Harun Al Rosyid, Eko Setijadi and Supeno Mardi Susiki Nugroho
4	Strategic Management for Logistics and Supply Chain Operation in Healthcare	Irwan Syahrir, Suparno and Iwan Vanany
5	Analysis of Brand Personality to Involve Event Involvement and Loyalty In The Case of Jakarta Fashion Week 2017	Arman Hakim Nasution, Yusuf Ade Rachmawan
6	Tradeoffs Mathematical Modeling of 3DCE in New Product Development; Real Three Dimensions and Directions for Development	Muhammad Adha Ilhami, Subagyo Subagyo and Nur Aini Masrurroh.
7	Development of Packaging Appearance Element Design of Dadih with Kansei Engineering Approach	Delfitriani Delfitriani, Taufik Djatna and Elvira Syamsir

Parallel Session 2, 29 August 2017, 15:30 – 17:15

No	Title	Author(s)
Room 2		
1	An Impact Analysis of Forecasting Methods and Forecasting Parameters on Bullwhip Effect	R Y H Silitonga and N Jelly
2	Reverse Logistic Location Problem for Electrical and Electronics Equipment Waste Treatment Facility	Erika Fatma
3	Development of a Reverse Supply Chain Model for Electronic Waste Incorporating Transportation Risk	Linh Doan, Yousef Amer, Sang-Heon Lee and Phuc Phan
4	Integration of Three Echelon Supply Chain (Supplier-Manufacturer-Distributor-Drop Shipper) with Permissible Delay in Payment and Penalty Contract	Muhammad Faisal Ibrahim and Suparno
5	Modified Allocation Capacitated Planning Model in Blood Supply Chain Management	Agus Mansur, Iwan Vanani, Niniet Indah
6	The Relationship among the Resiliency Practices in Supply Chain, Financial Performance, and Competitive Advantage in Manufacturing Firms in Indonesia and Sierra Leone	Ibrahim Musa , I Nyoman Pujawan
7	Analysis of Rice Supply Chain Mechanism with Simulation Approach	Bonitasari N Alfa and Subagyo
Room 3		
1	Design of Risk Assessment and Classification Strategy using Concentrated Numeric Statistic Matrix and Entropy Method	Ai Nurhayati and Aditya Gautama
2	Managing Risks in the Fisheries Supply Chain using House of Risk Framework and Interpretive Structural Modeling (ISM)	Thi Le Thuy Nguyen, Thi Tham Tran, Tan Phong Huynh, Thi Kim Dao Ho, Anh Tuan Le, and Kieu Hoanh Do
3	Identifying Risk Event in Indonesian Fresh Meat Supply Chain	Hana Wahyuni, Ivan Vanany, Udisubakti Ciptomulyono

Parallel Session 2, 29 August 2017, 15:30 – 17:15

No	Title	Author(s)
Room 3		
4	Shifting Orders Among Suppliers Considering Risk, Price and Transportation Cost	Cindy Revitasari and I Nyoman Pujawan
5	Failure Mode Effect Analysis and Fault Tree Analysis As a Combined Methodology in Risk Management	Naning Aranti Wessiani and Faza Yoshio Susanto
6	University Building Safety Index Measurement using Risk and Implementation Matrix	Arief Rahman , Fitria Arumsari and Anny Maryani
7	Mapping Risks of Indonesian Tuna Supply Chain	Putu Karningsih, Dewanti Anggrahini, Mokh Suef, Nani Kurniati, Aditya Fachrur and Nur Syahroni
8	Designing Model of Performance Measurement System of Sugar Industry Cluster based on Integrated Performance Measurement System Approach	Sri Gunani Partawi and Agusta Y R
Room 4		
1	The Effect of Occupational Health and Safety, Work Environment and Discipline on Employee Performance in A Consumer Goods Company	D O Putri, B Triatmanto, and S Setiyadi
2	SME Worker Affective (SWA) Index based on Environmental Ergonomics	Mirwan Ushada, Galih Kusuma Aji, Tsuyoshi Okayama and Malik Khidir
3	Manual Handling Methods Evaluation Based On Oxygen Consumption	Eko Nurmianto, Udisubakti Ciptomulyono, Suparno, Sudiyono Kromodihardjo, Hari Setijono, and Nur Ahmad Arief
4	Musculoskeletal Disorder Survey for Pond Workers	Anny Maryani, Sri Gunani Partawi and Humaira Nur Fitria Dewi
5	Bio-mechanical Assessment Toward Throwing and Lifting Process of i-LOCA (Innovative Lobster Catcher)	Adithya Sudiarno, Dyah Santhi Dewi and Maya Andini Putri
6	Effect of Safety Climate Relationship, and Organizational Culture on Compliance Regulation Safety Rules	Gusti Wira Bayutama and Sri Gunani Partawi
7	Targeting Overall Equipment Efficiency for Small Medium Enterprises with Irregular Production System	Yudha Prasetyawan , Mokh Suef, Leddy Claudia and Faradila Dwi Handayani

Parallel Session 3, 30 August 2017, 13:00 – 15:00

No	Title	Author(s)
Room 1		
1	Cost-effective Strategy to Mitigate Transportation Disruption in Supply Chain	Gustav Albertzeth and Nyoman Pujawan
2	A Literature Review On Multimodal Freight Transportation Planning Under Disruption	Erly Ekayanti Rosyida, Budi Santosa and I Nyoman Pujawan
3	A System Design for Cocoa Beans Transportation of Premium Products	T Doris Monica Sari, Y Arkeman, Muslich, and D Taufik
4	The Coil Steels Loading Planning Problems in Railway Carriage	Iwan Vanany, Diesta Maftuhah, Ahmad Rizal Muchsinin and David Rahadian
5	Initial Sustainability Assessment of Tapioca Starch Production System in Lake Toba Area	Asido Situmorang and Yosef Manik
6	Determining Fair Value and Maximum Price in Corporate Acquisition (Case Study: Palm Oil Industry)	I Ketut Gunarta and Gregorius Alexander
7	Valuating Indonesian Upstream Oil Management Scenario through System Dynamics Modelling	I Ketut Gunarta and Fariza Aulia Putri

No	Title	Author(s)
Room 2		
1	The Challenges and Issues of E-Government in Indonesia Seen Through the Services for Citizens	Endang Amalia
2	Policy Impact of the Indonesian Central Bank Certificate Related on Loan Interest Rate to the Demand Growth of Property	Budisantoso Wirjodirdjo and Hasyim Yusuf Asjari.
3	A Preliminary Dynamic Model of Success to Successful Archetype in Government Budget Competition Allocation by Using Balanced Score Card Like Framework	Arman Hakim Nasution , Alva Edy Tontowi, Bertha Maya Sopha, Budi Hartono
4	Development of Environmental Model Performance Green Productivity For Small And Medium Industries	Atikha Sidhi Cahyana, Hana Catur Wahyuni and Boy Isma Putra
5	Model of Urban Water Management towards Water Sensitive City: a Literature Review	Diesta Iva Maftuhah, Maria Anityasari and Mar'Atus Sholihah
6	The Comparison of Cultural Dimention Between Sulawesi, Indonesia and Philippine: A Measurement of Five Indonesian Islands	Ratih Setyaningrum, Andi Wijaya and Subagyo Subagyo
7	Development of Ecotourism Strategy Using SWOT Analysis: Case Study of BayungGede Village	Ekayana Putra, Arman Hakim Nasution
Room 3		
1	Modelling Impulsive Factors for Electronics and Restaurant Coupons E-store Display	Paulina Ariningsih, Marihot Nainggolan and Ignatius A Sandy
2	Implementation of Enterprise Resource Planning Systems: A User Perspective	Ewout Reitsma, Per Hilletoft and Umer Mukhtar
3	Augmented Halal Food Traceability System: Analysis and Design using UML	Yulita V Usman, Anas Miftah Fauzi, Tun Tedja Irawadi, Taufik Djatna
4	An Affective E-Commerce Design for SMEs Product Marketing based on Kansei Engineering	Anik Nur Habyba, Taufik Djatna and Elisa Anggraeni
5	The Effect of Emotional Design and Online Customer Reviews on Customer Repeat Purchase Intention in Online Store	Hendra Saputra, Adithya Sudiarno, Dyah Santhi Dewi
6	Usability Analysis of Indoor Map Application in A Shopping Centre	Ratna Sari Dewi and Rizki Kurnia Hadi
7	QC Operator's Nonneutral Posture Against Musculoskeletal Disorder's (MSDs) Risks	Fu'Ad Kautsar, Dayal Gustopo and Fuad Achmadi
Room 4		
1	The Development of Cross-Docking Operational Model For Fresh Vegetables Product by Considering Temperature Setting and Product Positioning in Refrigerated Vehicle	Afifah Fianda Utami Chandra Bhuana
2	Effective Production Planning for Purchased Part Under Long Leadtime and Uncertain Demand : MRP vs DDMRP	Moh. Jihan Shofa
3	Innovation Capability to Improve Competitiveness of Tenun Ikat Bandar Kediri	Devina Rosa Hendarti
4	The Design of Optimum Composition for Scimcont Cement Using Mixture Experiment	Johnson Saragih
5	Assessment of Managerial Innovation in Manufacturing Company	R Y H Silitonga and M Setiawati
6	Redefining the Business Process of Department of Food Security and Agriculture in Government of Surabaya City	Hadi Cahyono

Parallel Session 4, 30 August 2017, 15:15 – 17:00

No	Title	Author(s)
Room 1		
1	An Ergonomics and Online Marketing Applications in Leather Products Industry	Eko Nurmianto, Bilqis Amaliah and Arino Anzip
2	Investment Feasibility Tracking: The Importance of Measuring and Tracking the Success Level of the Project during Commercialization Phase	Yudha Andrian Saputra, V E D Setyaningtyas, Effi Latiffianti, S H Wijaya, and O S A Ladamay
3	A System Engineering of Valuation Readiness for Technology Transfer Postharvest Handling of Red Chili	Maulida Hayuningtyas and Taufik Djatna
4	A Study on Course Management System Implementation in Indonesian Higher Education Institutions	Yudha Andrian Saputra, M L Singgih, Effi Latiffianti, E Suryani, and Mudjahidin
5	Readiness Assessment Towards Smart Manufacturing System for Tuna Processing Industry in Indonesia	Dewanti Anggrahini , Nani Kurniati, Putu Dana Karningsih, Syarifuddin Mabe Parenreng
6	The Integration between Business Model Canvas and Manufacturing System Design	Yudha Prasetyawan, Nur Maulida and Melva Rosdhi Lutvitasari
7	Model of Relationship between Personal Factors and Occupational Health and Safety (OHS) Management Toward Unsafe Actions: Case Study at PT X	Maeka Dita Puspa Syamtingrum, Sri Gunani Partawi and Dyah Santhi Dewi
Room 2		
1	Strategy Formulation for Development of Leather Footwear Centre Based on Capabilities and Source of Innovation	Risma Fitriani, Moses L. Singgih, Bambang Syairudin
2	Development Strategy of Culinary Business Employing The Blue Ocean Strategy (BOS)	Sony Ardhian, Bambang Syairudin
3	A Structural Model of Creative Industry for Small Medium Enterprise Innovation Indexes	Lusi Zafriana, Arman Hakim Nasution,
4	Green Human Resource Management Implication on Increasing Productivity of Small and Medium Enterprises	Mudji Astuti, Hana Wahyuni
5	Inclusive Business Model in Tapioca Starch Industry in Lake Toba Area: A Case Study	Samuel Tampubolon and Yosef Manik
6	Determining Factors That Contribute to Financial Literacy for Small and Medium Enterprise	Muhammad Saiful Hakim , Venny Oktafianti and I Ketut Gunarta
7	Critical Operations Capabilities in A High Cost Environment: A Multiple Case Study	Cinzia Sansone, Per Hilletoft and David Eriksson
Room 3		
1	Designing Quality Characteristics of Carrot Syrup Using Taguchi Method	Yurida Ekawati, Antonius Indra Kurniawan and Sunday Noya
2	Determining Optimal Preventive Maintenance Interval for Component of Well Barrier Element in an Oil & Gas Company	Agus Siswanto and Nani Kurniati
3	An Improved Waste Classification Model to Support Implementation of Sustainable Manufacturing Practices	Agung Sutrisno, Iwan Vanany and Indra Gunawan
4	Policy for Equipment's Leasing Period Extension with Minimum Cost of Maintenance	Cindy Lestari and Nani Kurniati
5	Prediction Accident Triangle in Maintenance of Underground Mine Facilities using Poisson Distribution Analysis	Muhammad Husnul Khuluqi, Ryan Rizky Prapdito and Fabianus Prijo Sambodo
6	Design of a New On-Off Controller based on Arduino Uno R3 with Application to Window a/c	Eddy Erham, Markus Ahmad, and Wina P Sopiati
7	A Review of Maintenance Service for Leasing Product	Nani Kurniati and Cindy Lestari
8	Descriptive Analysis of Overall Equipment Effectiveness (OEE) in Various Industry	Sazli Tutur Risyahadi, Fany Apriliani and Suhendi Irawan



IConISE 2017