



IE Plenary

Tuesday, July 25, 2017 13.00-13.30

Manado Room 2nd fl

Invited speaker : Prof. Pekka Leviakangas (University of Oulu), Finland
Digitalisation of Industries – Observations, Evidence and Prospects

Tuesday, July 25, 2017 13.30-14.00

Manado Room 2nd fl

Invited speaker : Prof. Marie-Anne Guerry (Vrije Universiteit Brussel), Belgium
Model Selection within the Class of Discrete-time Markovian Models

IE 1: Quality System 1

Tuesday, July 25, 2017 13.30-15.00

Manado Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	751	IE1 - 1	Amalia Suzianti, Shabila Anjani, Hatara Trirama, Tesar Dayansyah and Alviana Alicia Syafinal	Designing Mobile Application for Monitoring Children's Health and Development from User and Pediatrician Perspective	Universitas Indonesia, Indonesia	14.00-14.15
2	18	IE1 - 2	Hafid Abdullah and Eddy Herjanto	Improving Quality and Productivity Analysis as an Effort to Development the Supporting Industries in Indonesia	Metal Industries Development Centre (MIDC), Indonesia	14.15-14.30
3	162	IE1 - 3	Djoko Sihono Gabriel and Palito J. Endthen	Leveraging Motor Cycle Driving Satisfaction Through Vehicle Operation and Maintenance Quality Improvement	Universitas Indonesia, Indonesia	14.30-14.45
4	353	IE1 - 4	Djoko Sihono Gabriel and Muhammad Habiburrahman	Why Did Not All High Quality Products Always Satisfy Their Users? A Case Study of Motorcycles and Its Drivers	Universitas Indonesia, Indonesia	14.45-15.00
5	369	IE1 - 5	Widia Kurnia Adi, Teuku Yuri M. Zagloel and Fauzia Dianawati	Integration Model of Value Engineering (VE) – Lean Six Sigma (LSS) for Cost Management Program in Steelmaking Process	Universitas Indonesia, Indonesia	15.00-15.15
6	528	IE1 - 6	Mochammad Arbi Hadiyah	Incorporating Servqual- QFD with Taguchi Design for Optimizing Service Quality Design : A Case Study	University of Surabaya, Indonesia	15.15-15.30



IE 2: Quality System 2

Tuesday, July 25, 2017 15.15-18.00

Manado Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	591	IE2 - 1	Markus Hartono, Amelia Santoso and Dina Natalia Prayogo	How Kansei Engineering, Kano and QFD Improve Logistics Services	University of Surabaya, Indonesia	15.15-15.30
2	720	IE2 - 2	Boy Nurtjahyo Moch., Komarudin - and Maulana Senjaya Susilo	Development of Eye Fixation Points Prediction Model from Eye Tracking Data Using Neural Network	Universitas Indonesia, Indonesia	15.30-15.45
3	807	IE2 - 3	Julian Robecca	Proposed Improvements Footwear Using Six Sigma Method and Method of Quality Function Deployment in PT. Primarindo Asia Infrastructure Tbk.	Indonesian Computer University, Indonesia	15.45-16.00
4	812	IE2 - 4	Sugih Arijanto, Handi Wijaya and Cahyadi Nugraha	Performance Measurement's Software Development for Internal Assessment Based on MBCFPE KPKU BUMN	National Institute of Technology, Indonesia	16.00-16.15
5	885	IE2 - 5	Yadrifil Yadrifil, Rike Adyartie and Annisa Marlin Masbar Rus	Improving Effervescent Product Yield Through Lean-DMAIC Method: a Pharmaceutical Company Case	Universitas Indonesia, Indonesia	16.15-16.30
6	757	IE2 - 6	Amalia Suzianti, Nadira Winaputri and Serdi Akbar Maulana	Service Innovation Design for Platinum Members In Garuda Indonesia Sales and Service Office	Universitas Indonesia, Indonesia	16.30-16.45

IE 3: Risk Engineering

Wednesday, July 26, 2017 08.00-10.00

Manado Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	601	IE3 - 1	Dessi Mufti, Eva Suryani and Yusrizal Bakar	Job Risk Assesment Toward Labor Facilities Using Job Strain Index Method	Bung Hatta University, Indonesia	08.00-08.15
2	718	IE3 - 2	Maya Arlini Puspasari, Hardianto Iridiastadi, Iftikar Sutralaksana and Ade Sjafuruddin	Effect of Driving Duration Towards EEG Fluctuations	Universitas Indonesia, Indonesia	08.15-08.30
3	356	IE3 - 3	Khawarita Siregar and Syahrul Fauzi Siregar	The Cause Analysis of Gloves and Soap Bar Defect Using Failure Mode and Effect Analysis (FMEA) in PT. XYZ	University of North Sumatera, Indonesia	08.30-08.45
4	558	IE3 - 4	Ayu Bidiawati and Lestari Setiawati	The Risk Assessment Work of Operator Based On Rapid Upper Limb Assessment Method (RULA) to Improvement of Work System	Bung Hatta University, Indonesia	08.45-09.00



5	745	IE3 - 5	Amalia Suzianti, Priandra Aditya Wattimena and Rheinanda Kaniawari	Risk Management of New Product Development Process on Footwear Industry in Indonesia. Case Study : PT Brodo Ganesha Indonesia	Universitas Indonesia, Indonesia	09.00-09.15
6	860	IE3 - 6	Nanang Tri Wahyuna, Rahmat Nurcahyo and Yadrifil Yadrifil	Maintenance Strategy on Boiler System Steam Power Plant Based on Reliability Centered Maintenance (RCM)	Universitas Indonesia, Indonesia	09.15-09.30
7	868	IE3 - 7	Yadrifil Yadrifil, Anisa Fithrasari and Annisa Marlin Masbar Rus	Failure Risk Analysis on Core Network of GPRS Equipment Using FMEA & FTA Method and Scenario of Treatment Cost Allocation	Universitas Indonesia, Indonesia	09.30-09.45

IE 4: Ergonomics

Wednesday, July 26, 2017 10.15-12.00

Manado Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	181	IE4 - 1	Billy Muhamad Iqbal, Armand Omar Moeis and Renalda Krissalam	The Analysis of Ergonomic Design of Tactical Commander Console (TACCO) in the Virtual Environment of Medium-ranged Twin-engined Maritime Patrol Aircraft (MPA)	Universitas Indonesia, Indonesia	10.15-10.30
2	395	IE4 - 2	Lovely Lady and Nisfaeni	Optimal Physical Environment to Maintain Concentration on Office Work in Tropical Climate in Indonesia	Sultan Ageng Tirtayasa University, Indonesia	10.30-10.45
3	701	IE4 - 3	Iketut Widana	Mangusada Hospital Go to the Ergonomics Hospital	Bali State Polytechnic, Indonesia	10.45-11.00
4	707	IE4 - 4	Dwi Novirani and Gp Liansari	The Ergonomic Kue Balok Baking Tool Production which Fueled by Charcoal	National Institute of Technology, Indonesia	11.00-11.15
5	736	IE4 - 5	Danu Hadi Syaifullah, Maya Arlini Puspasari and Timotius Alfin	Neuromarketing Evaluation of Online Shop Advertisement Using Electroencephalogram (EEG)	Universitas Indonesia, Indonesia	11.15-11.30
6	759	IE4 - 6	Tegar Septyan	Integrating IDEAS Digital Human Modeling in Electronic Industry to Improve Human-System Performance	Universitas Indonesia, Indonesia	11.30-11.45



IE 5A: Sustainable Manufacturing and Public Policy

Wednesday, July 26, 2017 13.00-14.00

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No	Paper #	ID	Author	Title	Affiliation	Time
1	166	IE5A - 1	Himawan Pranamukti, Akhmad Hidayatno, Armand Moeis and Naufa Muna	Managing Port Cluster Dynamics : Development of Port Policy Model	Universitas Indonesia, Indonesia	13.00-13.15
2	258	IE5A - 2	Hafid Abdullah	Analysis of Situation and Competitive Strategy Formulation for the Vision and Mission Towards the Year 2020 (Case: in MIDC Ministry of Industry Indonesia)	Metal Industries Development Centre (MIDC), Indonesia	13.15-13.30
3	267	IE5A - 3	Akhmad Hidayatno, Adinda Amalia and Arry Rahmawan Destyanto	Analysis of CO2 Emission Effect from Coal-fired Power Plant to Gross Domestic Regional Product at Jakarta	Universitas Indonesia, Indonesia	13.30-13.45
4	271	IE5A - 4	Arry Rahmawan Destyanto, Akhmad Hidayatno and Reinaldo Giovanni	Application of Technology Assesment in Carbon Capture and Storage Technology Implementation for CO2 Emission in Indonesia	Universitas Indonesia, Indonesia	13.45-14.00
5	353	IE5A - 5	Djoko Sihono Gabriel and Muhammad Habiburrahman	Why Did Not All High Quality Products Always Satisfy Their Users? A Case Study of Motorcycles and Its Drivers	Universitas Indonesia, Indonesia	14.00-14.15

IE 5B: Optimization

Wednesday, July 26, 2017 13.00-14.00

Bougenville Room 1st fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	685	IE5B - 1	Elisabeth Ginting and Mangara M. Tambunan	Application Study of Evolutionary Operation Methods in Optimization of Process Parameters for Mosquito Coils Industry	University of North Sumatera, Indonesia	13.00-13.15
2	884	IE5B - 2	Yadrifil Yadrifil, Irmawati Ulfah and Annisa Marlin Masbar Rus	Supplier Performance Evaluation Methods Using Data Envelopment Analysis Banker, Charnes, Cooper Model and Super Efficiency Model in Pumping Unit Producer	Universitas Indonesia, Indonesia	13.15-13.30
3	313	IE5B - 3	Zulkarnain, Komarudin, Armand Omar Moeis and Seto Banuwijoyo	Shipping Route Model Development for the Indonesian Pendulum Ports	Universitas Indonesia, Indonesia	13.30-13.45



4	228	IE5B - 4	Debrina Puspita Andriani, Muhammad Hafid Zamroni, Tiffany Clara Alesi and Fajri Rahman	The Layout Optimization of Production Process Facilities in Apple Processing to Improve Productivity and Sustainability SMEs	Brawijaya University, Indonesia	13.45-14.00
5	840	IE5B - 5	Farizal Farizal, Sucipto Sucipto and Amar Rachman	Optimization of Industrial Production Planning with Uncertain Raw Material Supply	Universitas Indonesia, Indonesia	14.00-14.15
6	250	IE5B - 6	Armand Moeis and Muhammad Harisuddin	Modeling and Simulation of Stacking Rules in Container Terminal with Discrete Event Simulation Approach	Universitas Indonesia, Indonesia	14.15-14.30
7	467	IE5B - 7	Romadhani Ardi, Armand Omar Moeis and Raymond Bonakapvi	A Simple Heuristic Algorithm for Stowage Planning in Containership	Universitas Indonesia, Indonesia	14.30-14.45

IE 5C: Manufacturing and Service System

Wednesday, July 26, 2017 13.00-14.00

Orchid Room 1st fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	10	IE5C - 1	Jonny Jonny and T. Yuri M. Zagloel	Developing and Implementing the Patient-centered Care Model for Hospital in Indonesia	Universitas Indonesia, Indonesia	13.00-13.15
2	439	IE5C - 2	Dewi Kusumawaty, Humala Napitupulu and Meilita Tryana Sembiring	Determination Standard Time Test Parameters of Testing Liquid Waste in Baristand Industri Medan	Research and Standardization Industry Medan (Baristand Industri Medan), Indonesia	13.15-13.30
3	725	IE5C - 3	Anita Christine Sembiring, Anggianika Mardatillah and Uni Pratama Pebrina Tarigan	The Improvement of Production Cost Efficiency Using Activity Based Costing in PT. XYZ	Prima Indonesia University, Indonesia	13.30-13.45
4	744	IE5C - 4	Harmein Nasution, Irwan Budiman and Agus Salim	The Material Handling Cost Analysis for Chinese Traditional Praying Paper Industry	University of North Sumatera, Indonesia	13.45-14.00
5	772	IE5C - 5	Erlinda Muslim, Irvan Riansa and Komarudin Komarudin	Analytic Hierarchy Process (AHP) Pairwise Matrix with One Missing Value	Universitas Indonesia, Indonesia	14.00-14.15
6	859	IE5C - 6	Annisa Marlin Masbar Rus, Rediani Pramudita and Isti Surjandari	Segmentation of Natural Gas Customers in Industrial Sector Using Self-organizing Map (SOM) Method	Universitas Indonesia, Indonesia	14.15-14.30