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PROCEEDING 9th ISIEM The 9th International Seminar on Industrial Engineering and Management

Grand Inna Muara Hotel Convention & Exhibition Padang, West Sumatera, Indonesia, September 20 – 22, 2016

Organized by : Industrial Engineering Department of

Trisakti University• Al Azhar Indonesia University•
Esa Unggul University•Telkom University•
Tarumanagara University •Pasundan University •
Atma Jaya Catholic University of Indonesia •
Bung Hatta University •

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PREFACE

Dear Presenters and Delegates,

On behalf of the Organizing Committee, I am honored to welcome you to the 9th International Seminar on Industrial Engineering and Management (ISIEM). This seminar is organized by the Industrial Engineering Department from eight Universities, namely Trisakti University, Telkom University, Tarumanagara University, Atma Jaya Catholic University of Indonesia, Al Azhar Indonesia University, Esa Unggul University, Pasundan University, and Bung Hatta University.

The theme "Collaborative Innovation Towards Borderless Industrial and Economic System" which in accordance with the current economic era, we hope that through the exchange of ideas, experiences and recent progress in Industrial Engineering and Management from academicians, engineers, professionals and practitioners from Universities, research institutions, government agencies and industries be able to help us to deal with future challenges.

We hope that our presenter and delegates will gain many shared ideas and great experiences from this conference and also acquire additional insights from our honorable speakers, **Gursel Ilipinar, PhD** from ESADE Business School – Barcelona, **Profesor Emeritus Dato' Ir. Dr. Zainai Bin Mohamed** from UTM Razak School of Engineering and Advance Technology – Malaysia, **Milko-Pierre Papazoff** from Vice President of French External Trade Counsellor (Malaysian Chapter).

The success of this seminar is due to the hard efforts of many people who we gratefully acknowledge. Special thank to all reviewers, speakers, and presenters, also highly appreciate to the committee for mutual effort and invaluable contribution.

Finally, we hope you will enjoy this conference and the natural beauty of Padang city – Indonesia and see you in the next ISIEM.

Best wishes,

Chair of the 9th ISIEM 2016

Dr. Wisnu Sakti Dewobroto, M.Sc

The 9th International Seminar on Industrial Engineering and Management (9th ISIEM) Grand Inna Muara Padang, West Sumatera, Indonesia, September 20-22, 2016

COMMITTEE

STEERING COMMITTEE

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The 9th International Seminar on Industrial Engineering and Management (9th ISIEM) Grand Inna Muara Padang, West Sumatera, Indonesia, September 20-22, 2016 7. Eva Suryani, S.T., M.T.

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- 3. Lestari Setiawati, S.T., M.T.

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| 18. Ayu Bidiawati J.R, S.T.,M.T. | (Bung Hatta University) |

KEYNOTE SPEECH

#1

Prof. Emeritus Dato' Ir. Dr. Zainai Bin Mohamed UTM Razak School of Engineering and Advanced Technology UTM International Campus



#2 Gursel Ilipinar, PhD Innovation Management Expert ESADE Business School - Barcelona



#3 Milko-Pierre Papazoff VP of French External Trade Counsellor (Malaysian Chapter)



AGENDA

September 20, 2016

| 18:00 - 18:30 | Registration |
|---------------|---|
| 18:30 - 19:30 | Dinner |
| 19:30 - 19:40 | Padang Dance by Bung Hatta University |
| 19:40 - 19:45 | Welcoming Speech from Head of Committee ISIEM 9 th |
| 19:45 - 20:00 | Opening Ceremony by Bung Hatta University Rector |
| 20:00 - 21:00 | Keynote Speech # 1 |
| | Prof. Emeritus Dato' Ir. Dr. Zainai Bin Mohamed |
| | (UTM Razak School of Engineering and Advanced Technology, |
| | UTM International Campus – Malaysia) |
| | Moderator: Dr. Adianto, M.Sc. |
| 21:00 - 21:15 | Photo Session with all participants |

September 21, 2016

| 6:30 | - | 8:00 | Breakfast and Registration |
|-------|---|----------------|--|
| 8:00 | - | 9:00 | Keynote Speech # 2 |
| | | | Gursel Ilipinar, PhD |
| | | | (Innovation Management Expert |
| | | | ESADE Business School – Barcelona) |
| | | | Moderator: Ir. Wahyukaton, M.T. |
| 9:00 | - | 10:00 | Keynote Speech # 3 |
| | | | Milko-Pierre Papazoff |
| | | | VP of French External Trade Counsellor (Malaysian Chapter) |
| | | | Moderator: Dr. Ir. Syarif Hidayat, M.Eng.Sc, M.M. |
| 10:00 | - | 10:30 | Question and Answer |
| 10:30 | - | 11:15 | Coffee and Tea Break |
| 11:15 | - | 12:35 | Parallel session #1 |
| 12:35 | | 40.00 | |
| | - | 13:30 | Lunch break |
| | | 13:30 16:30 | Lunch break Parallel session #2 |
| 13:30 | - | | |

September 22, 2016

08:00 - 09:30 Parallel session #3 09:30 - 17:00 City Tour

> The 9th International Seminar on Industrial Engineering and Management (9th ISIEM) Grand Inna Muara Padang, West Sumatera, Indonesia, September 20-22, 2016

PARALLEL SESSION

SEPTEMBER 21, 2016 SESSION 1 ROOM 1

Moderator : Dr. Lamto Widodo, S.T., M.T.

| Time | Paper | Code | Paper Code |
|-------------|---|------|---------------|
| 11.15-11.25 | MAINTENANCEPERFORMANCEMEASUREMENTTRANSJAKARTABUSATPERUMDAMRISBUBUSWAYCORRIDOR I & VIIIUSINGMAINTENANCESCORECARDDidienSuhardini,IvelineAnneMarie,AmalWitonohadi,AuliandiFahridityaPutraJurusanTeknikIndustri,FakultasTeknologiIndustri,UniversitasTrisakti,Jakarta,IndonesiaIndonesiaIndustriIndustriIndustri | IM | 110 |
| 11.25-11.35 | IDENTIFICATION OF SUPPLY CHAIN PERFORMANCE INDICATORS AND STRATEGIC OBJECTIVES USING THE BALANCED SCORECARD Dwi Kurniawan, Adela Anggun Pertiwi, Lisye Fitria Industrial Engineering Department, Institut Teknologi Nasional, Bandung, Indonesia | SCM | 26 |
| 11.35-11.45 | IMPROVEMENT TO QUALITY OF TELECOMMUNICATION SERVICE BY MINIMIZE FAILURE OF SIMKARI APPLICATION DEVICE (A CASE STUDY IN PT DATALINK SOLUTION) M. Hudori Department of Logistic Management, Citra Widya Edukasi Polytechnic of Palm Oil, Bekasi, Indonesia | QM | 79 |
| 11.45-11.55 | POSITIONING ANALYSIS FOR HIGHER EDUCATION BASED ON PERCEPTUAL MAPPING USING MULTIDIMENSIONAL SCALING Hafizh Suharja, Yati Rohayati, Rio Aurachman School of Industrial and System Engineering, Telkom University, Bandung, Indonesia | IM | 16 |
| 11.55-12.05 | IMPROVING THE SERVICE QUALITY OF DISTANCE EDUCATION USING INTEGRATION SERVICE QUALITY FOR HIGHER EDUCATION AND KANO Istianah Nedia, Yati Rohayati, Maria Dellarosawati Idawicasakti School of Industrial and System Engineering, Telkom University, Bandung, Indonesia | QM | 40 |
| 12.05-12.15 | DESIGN OF STANDARD OPERATING PROCEDURE (SOP) OF DESIGN AND DEVELOPMENT OF PRODUCT ACCORDING TO ISO 9001:2015 CLAUSE 8.3 BASED ON RISK BASED THINKING BY BUSINESS PROCESS IMPROVEMENT METHOD AT CV. XYZ Rindy Aprilina Gita Prastyanti ¹ , Sri Widaningrum, Heriyono Lalu Faculty of Industrial Engineering, Telkom University, Bandung, Indonesia | QM | 52 |
| 12.15-12.25 | DESIGN OF NONCONFORMITY AND CORRECTIVE ACTION STANDARD OPERATING PROCEDURE BASED ON INTEGRATED REQUIREMENTS FROM ISO 9001 AND ISO 14001 Rahmah Fadhilah, Sri Widaningrum, Heriyono Lalu Industrial Engineering Department, Telkom University of Engineering, Bandung Indonesia | QM | 53 |

SEPTEMBER 21, 2016 SESSION 1 ROOM 1 Moderator : Dr. Lamto Widodo, S.T., M.T.

| Time | Paper | Code | Paper Code |
|-------------|---|------|---------------|
| 12.25-12.35 | DESIGN AND ANALYSIS PHYSICAL AND LOGICAL SECURITY USING TIA-942 AND ISO/IEC 27000 SERIES IN DATA CENTER OF PDII-LIPI Mukhlis Anugrah Pratama, Mochammad Teguh Kurniawan, Information System Major, Industrial Engineering Faculty, Telkom University, Bandung, Indonesia | DSS | 68 |

SEPTEMBER 21, 2016 SESSION 1 ROOM 2

Moderator : Dr. Ir. Syarif Hidayat, M.Eng.Sc, M.M.

| Time | Paper | Code | Paper Code |
|-------------|---|------|---------------|
| 11.15-11.25 | INCREASING PRODUCTIVITY WITH OBJECTIVE MATRIX METHOD CASE STUDY ON BUILDING MAINTENANCE MANAGEMENT PIO PT. XXX R Bagus Yosan, Muhammad Kholil, Winny Soraya Industrial Engineering, Mercubuana University, Jakarta, Indonesia | IM | 42 |
| 11.25-11.35 | LEAN PROJECT MANAGEMENT TO MINIMIZE WASTE, CASE STUDY : INDARUNGVI PROJECT, PT SEMEN PADANG Nilda Tri Putri, Sarvina Department of Industrial Engineering, Faculty of Engineering, Andalas University, Padang, Indonesia | QM | 38 |
| 11.35-11.45 | APPLICATION OF LEAN MANUFACTURING IN THE PRODUCTION OF SPUN PILE USING WASTE ASSESMENT MODEL AND VALUE STREAM ANALYSIS Syarif Hidayat, Siti Nurlina Industrial Engineering Department, Faculty of Science and Technology, University Al Azhar Indonesia, Jakarta, Indonesia | PS | 11 |
| 11.45-11.55 | THE IMPLEMENTATION OF CORPORATE SOCIAL RESPONSIBILITY OF STARBUCKS COMPANY Charly Hongdiyanto Ciputra University, Indonesia | IM | 72 |
| 11.55-12.05 | A MODIFIED ECONOMIC PRODUCTION QUANTITY (EPQ) WITH SYNCHRONIZING DISCRETE AND CONTINUOUS DEMAND UNDER FINITE HORIZON PERIOD AND LIMITED CAPACITY OF STORAGE Jonrinaldi, Henmaidi, Nurike Oktavia Department of Industrial Engineering, Andalas University, Padang, Indonesia Master Program of Industrial Engineering, Andalas University, Padang, Indonesia | PS | 44 |
| 12.05-12.15 | APPLICATION OF VALUE STREAM MAPPING IN THE NVOCC FCL SERVICE PROCESS TO MINIMIZE DELAY IN SUBMISSION OF THE DOCUMENT (A CASE STUDY IN PT YUSEN LOGISTICS INDONESIA) M. Hudori, Nismah Panjaitan Department of Logistic Management, Citra Widya Edukasi Polytechnic of Palm Oil, Bekasi, Indonesia Department of Industrial Engineering, Sumatera Utara University, Medan, Indonesia | QM | 76 |
| 12.15-12.25 | WAREHOUSE LAYOUT DESIGN USING SHARED STORAGE METHOD Alan Dwi Wibowo, Rahmat Nurcahyo, Cut Khairunnisa Department of Agro-Industrial Technology,Universitas Lambung Mangkurat, Indonesia Departemen of Industrial Engineering, Universitas Indonesia, | PS | 22 |

SEPTEMBER 21, 2016 SESSION 1 ROOM 2 Moderator : Dr. Ir. Syarif Hidayat, M.Eng.Sc, M.M.

| Time | Paper | Code | Paper Code |
|-------------|---|------|---------------|
| | Indonesia | | |
| 12.25-12.35 | CABLE CLAMP PRODUCTION CAPACITY PLANNING USING ROUGH CUT CAPACITY PLANNING (RCCP) METHOD (A CASE STUDY IN PT FAJAR CAHAYA CEMERLANG) M. Hudori Department of Logistic Management, Citra Widya Edukasi Polytechnic of Palm Oil, Bekasi, Indonesia | PS | 80 |

SEPTEMBER 21, 2016 SESSION 1 ROOM 3

Moderator : Dr. Ir. Yogi Yogaswara, M.T.

| Time | Paper | Code | Paper Code |
|-------------|---|------|---------------|
| 11.15-11.25 | DEVELOPMENT OF ONLINE KNOWLEDGE MANAGEMENT CYCLE INDICATORS USING SECI APPROACH: CASE STUDY IN AN ENERGY COMPANY Aldio Fikri Siddik, Amelia Kurniawati, Umar Yunan Kurnia Septo Hediyanto Industrial Engineering Department, Telkom University, Bandung, Indonesia Information System Department, Telkom University, Bandung, Indonesia | DSS | 51 |
| 11.25-11.35 | MANAGEMENT INFORMATION SYSTEM FOR ORDER FULFILLMENT: A CASE STUDY Johanes Fernandes Andry, Halim Agung, Yana Erlyana Faculty Technology and Design, Bunda Mulia University, Jakarta, Indonesia | DSS | 3 |
| 11.35-11.45 | Risk Factor Analysis of Liquified Natural Gas (LNG) Supply Process Chain in Indonesia Rahmat Nurcahyo, Farid Akbar, Yadrifil Kampus UI Depok Indonesia | SCM | 14 |
| 11.45-11.55 | ENHANCING PENDULUM NUSANTARA MODEL IN INDONESIAN MARITIME LOGISTICS NETWORK Komarudin, Muhammad Reza, Armand Omar Moeis System Engineering, Modeling and Simulation (SEMS) Laboratory, Department of Industrial Engineering, Universitas Indonesia | OR | 49 |
| 11.55-12.05 | PURCHASING CONSORTIUM SYSTEM USING COMMON REPLENISHMENT EPOCH (CRE) MODEL BY DESIGNING MOBILE INFORMATION SYSTEM FOR SMALL and MEDIUM ENTERPRISES (SMEs) Yudha Prasetyawan, Imam Baihaqi, Shinta Dewi Industrial Engineering Department, Sepuluh Nopember Institut of Technology, Surabaya, Indonesia Business and Management Department, Sepuluh Nopember Institut of Technology, Surabaya, Indonesia Agroindustrial Technology Department, Universitas Internasional Semen Indonesia, Indonesia | DSS | 10 |
| 12.05-12.15 | DESIGN E-COMMERCE ANGON BASED ON MARKETPLACE TO INCREASE REVENUE FOR LIVESTOCK'S ACTORS (SELLING MODULE) Atika Elysia, Irfan Darmawan, Muhammad Azani Hasibuan Department of Industrial Engineering, Telkom University, Bandung, Indonesia | IM | 65 |

SEPTEMBER 21, 2016 SESSION 1 ROOM 3 Moderator : Dr. Ir. Yogi Yogaswara, M.T.

| Time | Paper | Code | Paper Code |
|-------------|---|------|---------------|
| 12.15-12.25 | CONTROL SYSTEMS DESIGN FOR AUTO JUDGEMENT CHECK MACHINE IN ROTOR ASSEMBLY LINE USING PROGRAMMABLE LOGIC CONTROLLER Syahril Ardi, Moh Faiza Abu Rizal Production and Process Manufacture, Polytechnic Manufacture Astra, Jakarta, Indonesia | PS | 31 |
| 12.25-12.35 | OPERATIONAL RISK IDENTIFICATION IN ADMINISTRATION SERVICES OF HIGHER EDUCATION Robby Anzil Firdaus, Rahmat Nurcahyo, Anafi Yuan Septiari, Supriadi Industrial Engineering Departement, Universitas Indonesia, Indonesia | IM | 17 |

SEPTEMBER 21, 2016 SESSION 2 ROOM 1 Moderator : Niken Parwati, S.T., M.M.

| Time | Paper | Code | Paper Code |
|-------------|---|------|---------------|
| 13.30-13.40 | SHELVES RE-DESIGN TO CONSIDER ASPECTS OF ERGONOMICS IN KOPETRI MINI MARKET, KARAWANG Dene Herwanto, Sukanta University of Singaperbangsa Karawang, Karawang, Indonesia | 6 | ER |
| 13.40-13.50 | COGNITIVE ERGONOMIC ANALYSIS OF PROFESSIONALS IN INDUSTRIAL DESIGNER APPAREL (Case Study: Designer at PT. Kurnia ASTASURYA) Erwin M Pribadi, Ari Robiana Rijalah Industrial Engineering Department, Universitas Pasundan, Bandung, Indonesia | 13 | ER |
| 13.50-14.00 | DESIGN CONCEPT OF WASHING GALLON USING DESIGN METHOD RATIONAL Antonio Bennarivo Nainggolan, Mira Rahayu, Teddy Syafrizal Industrial Engineering Department, Telkom University, Bandung, Indonesia | 56 | ER |
| 14.00-14.10 | DESIGNING ERGONOMIC CONVEYANCE TOOLS FOR SULFUR MINERS IN THE IJEN CRATER Anny Maryani, Dyah Santhi Dewi, Elsa Camelia Harmadi, Pamungkas Dwi Admaja Industrial Engineering Department, ITS Surabaya, Indonesia | 61 | ER |
| 14.10-14.20 | AUTOMATIC POLARIZING FILTER SYSTEM FOR WELDING MASK Muhammad Ridwan Andi Purnomo, Riadho Clara Shinta, Rizqi Ramadhani, Ahmad Rizal Yassaruddin, Muhammad Iqbal Sabit Department of Industrial Engineering Universitas Islam Indonesia | 47 | ER |
| 14.20-14.30 | DESIGN GALLON WASHING TOOLS USING ERGONOMIC FUNCTION DEPLOYMENT METHOD Bintang Sri Perdana, Mira Rahayu, Teddy Syafrizal Industrial Engineering Department, Telkom University, Bandung, Indonesia | 57 | ER |
| 14.30-14.40 | ERGONOMIC ANALYSIS FOR THE ARMOURED PERSONNEL CARRIER DRIVER Halim Mahfudh, Lilik Zulaihah, Reda Rizal Department of Industrial Engineering, Universitas Pembangunan Nasional Veteran Jakarta | 91 | ER |

SEPTEMBER 21, 2016 SESSION 2 ROOM 1 Moderator : Niken Parwati, S.T., M.M.

| Time | Paper | Code | Paper Code |
|-------------|---|------|---------------|
| 14.40-14.50 | APPLICATION OF ANALYTICAL HIERARCHY PROCESS TO CHOOSE CRITERIA FOR MOBILE PHONES Dessi Mufti, Yesmizarti Muchtiar, Iswanto Industrial Engineering Department, Universitas Bung Hatta, Padang, West Sumatera, Indonesia | 83 | IM |
| 14.50-15.00 | DESIGNING A PERSONAL SURVIVAL KIT IN FLOOD DISASTERS THROUGH PARTICIPATORY DESIGN APPROACH Grace Novelia, Johanna Renny Octavia Industrial Engineering Department, Parahyangan Catholic University, Bandung, Indonesia | 89 | ER |
| 15.00-15.10 | DESIGN IMPROVEMENT FOR POTATOES CULTERY TOOLS "POTTY" USING PRODUCT ARCHITECTURE ANALYSIS Rahmat Ramadhani Bayu, Dicha Keci Barakin, Rendra Gilang Yuniarto, Muhammad Iqbal Industrial Engineering, Telkom University, Bandung, Indonesia | 30 | ER |
| 15.10-15.20 | STUDY OF SHAFT POSITION IN GAS TURBINE JOURNAL BEARING Rizky Arman, Iman Satria Mechanical engineering Dept, Faculty of Industrial Technolgy, Bung Hatta University, Padang, Indonesia | 105 | PS |
| 15.20-15.30 | APPLICATION METHODS P-C-P TO IMPROVE QUEUE SERVICE QUALITY IN SUPERMARKET CASHIER AT THE PEAK DEMAND CONDITION Yesmizarti Muchtiar, Muhibbullah Azfa Manik, Emil Endrivon Department of Industrial Engineering, Bung Hatta University, Padang, Indonesia | 78 | QM |
| 15.30-15.40 | DESIGN E-COMMERCE ANGON BASED ON MARKETPLACE TO INCREASE PURCHASING EFFICIENCY FOR LIVESTOCK'S ACTOR (PURCHASE MODULE) Pratiwi Galuh Putri, Irfan Darmawan, Muhammad Azani Departemen of Industrial Engineering Telkom University, Bandung, Indonesia | 67 | IM |
| 15.40-15.50 | DEVELOPING INFORMATION SYSTEM OF LIBRARY ON E- SCHOOL QR-CODE BASED IN 13 NATIONAL HIGH SCHOOL USING EXTREME PROGRAMMING METHODOLOGY Timbul Prawira Gultom, Nia Ambarsari, Muhammad Azani H. Department of Industrial Engineering, Telkom University, Bandung, Indonesia | 71 | DSS |
| 15.50-16.00 | USING EDUQUAL AND KANO'S MODEL TO IMPROVE THE SERVICE QUALITY OF TRAINING AND CERTIFICATION PROGRAM Iftitah Pratomo, Yati Rohayati, Sari Wulandari School of Industrial and System Engineering, Telkom University, Bandung Indonesia | 23 | IM |
| 16.00-16.10 | DEVELOPMENT DETAIL DESIGN GALLON WASHER USING DESIGN FOR ASSEMBLY (DFA) Mohamad Walid Anshar Ichsan Shahib, Mira Rahayu, Teddy Sjafrizal Industrial Engineering Department, Telkom University, Bandung, Indonesia | 55 | ER |

SEPTEMBER 21, 2016 SESSION 2 ROOM 1 Moderator : Niken Parwati, S.T., M.M.

| Time | Paper | Code | Paper Code |
|-------------|---|------|---------------|
| 16.10-16.20 | MAKING A PLYWOOD BOAT CATAMARANS MODEL FOR HANDLING OF FLOOD EMERGENCY IN AREAS OF DURI KEPA Indra Gunara Rochyat, Asnawati, Wahyu Albin Tabrani Product Design Department – Design & Creative Industry Faculty, Esa Unggul University, Jakarta, Indonesia | 102 | ER |
| 16.20-16.30 | STUDY OF LIFT MARKET THROUGH GAP ANALYSIS Niken Parwati, Nurhanisa Maysa, Aprilia Tri Purwandari Department of Industrial Engineering, Faculty of Science and Technology, Universitas Al Azhar Indonesia | 93 | IM |

SEPTEMBER 21, 2016 SESSION 2 ROOM 2

Moderator : Inna Kholidasari, S.T., M.T., Ph.D.

| Time | Paper | Code | Paper Code |
|-------------|---|------|---------------|
| 13.30-13.40 | MAXIMUM PROFIT CALCULATION BASED ON THE QUANTITY OF DEMAND VEGATABLES WITH THE SINGLE ORDER QUANTITY METHOD Annura Minar Gayatri, Nunung Nurhasanah, Ahmad Juang Pratama Industrial Engineering, Faculty of Science and Technology, University of Al Azhar Indonesia, Jakarta, Indonesia | 84 | PS |
| 13.40-13.50 | DETERMINING THE INVENTORY POLICY FOR V-BELT USING PROBABILISTIC METHOD Sukanta, Dene Herwanto University Singaperbangsa of Karawang, Indonesia | 7 | PS |
| 13.50-14.00 | SYSTEM DYNAMICS BASED BALANCED SCORECARD TO SUPPORT DECISION MAKING IN STRATEGY OF PERFORMANCE IMPROVEMENT (A CASE STUDY IN THE UNIVERSITY) Linda Theresia, Yenny Widianty, Dawi Karomati Baroroh Department of Industrial Engineering, Institut Teknologi Indonesia, Serpong, Indonesia Industrial Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia | 8 | DSS |
| 14.00-14.10 | DRUGINVENTORYPOLICYPROPOSALUSINGPROBABILISTICMETHODSTOINCREASETHESERVICELEVELSabilaSyafitriPambudi,DidaDiahDamayanti,BudiSantosaChulasohDepartemenofIndustrialEngineering,TelkomUniversity,Bandung,IndonesiaIndonesiaIndonesiaIndonesia | 74 | PS |
| 14.10-14.20 | AN AUTOMATED GUIDED VEHICLE SIMULATION THROUGH ROBOTINO TO HELP LEARNING COURSE INDUSTRIAL AUTOMATION Tatang Mulyana, Haris Rachmat, Prasetia Pramudita Yuliarso Laboratory of Production Manufacturing and Automation, Faculty of Industrial Engineering, Telkom University, Bandung, Indonesia | 33 | PS |
| 14.20-14.30 | THE IMPLEMENTATION OF ANALYTIC HIERARCHY PROCESS ON THE SELECTION OF SUPPLIER IN START-UP BUSINESS: A CASE STUDY Ahmad Setyo Irawan, Liliani International Business Management, Universitas Ciputra, Surabaya, Indonesia | 27 | SCM |

SEPTEMBER 21, 2016 SESSION 2 ROOM 2 Moderator : Inna Kholidasari, S.T., M.T., Ph.D.

| Time | Paper | Code | Paper Code |
|-------------|--|------|---------------|
| 14.30-14.40 | OPTIMAL PREVENTIVE MAINTENANCE OF TWO-PHASE MAINTENANCE POLICY FOR LEASED PRODUCT Hennie Husniah, Andi Cakravastia, Bermawi P. Iskandar Department of Industrial Engineering, Langlangbuana University, Bandung, Indonesia Department of Industrial Engineering, Bandung Institute of Technology, Bandung, Indonesia | 28 | PS |
| 14.40-14.50 | A SIMPLE MATHEMATICAL MODEL OF TECHNOLOGICAL TRANSFER WITH TWO COMPETING FOLLOWERS (A PRELIMINARY RESULT) Hennie Husniah, Asep K. Supriatna Department of Industrial Engineering, Langlangbuana University, Bandung, Indonesia Department of Mathematics, Padjadjaran University, Bandung, Indonesia | 29 | OR |
| 14.50-15.00 | INCREASING PRODUCTIVITY OF PT. XYZ THROUGH THE UTILIZATION OF STANDARD TIME AND THE TWO HANDED PROCESS FOR PANEL BOX PRODUCTION Arnolt Kristian Pakpahan; Didien Suhardini; Arum Tri Astuti Organizational and Business Development Laboratorium, Industrial Engineering, Faculty of Industrial Engineering, Trisakti University | 100 | IM |
| 15.00-15.10 | JOB SHOP SCHEDULING AT IN-HOUSE REPAIR DEPARTMENT IN COLD SECTION MODULE CT7 ENGINE TO MINIMIZE MAKESPAN USING GENETIC ALGORITHM AT PT XYZ Michael Whizo Mayto, Pratya Poeri Suryadhini, Murni Dwi Astuti Industrial Engineering Study Program, Industrial Engineering Faculty, Telkom University, Bandung, Indonesia | 99 | PS |
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