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Proceeding

7th INTERNATIONAL SEMINAR ON INDUSTRIAL
ENGINEERING AND MANAGEMENT (7th ISIEM)

with theme: *“Green Technology on Industrial Engineering,
Information and Management”*

*Sanur Paradise Hotel, Bali, Indonesia
March 11th – 13th, 2014*



Organized by :
Industrial Engineering Department
*Al Azhar University, Pasundan University, Trisakti University,
Esa Unggul University, Tarumanagara University,
Atma Jaya Catholic Univ. of Indonesia, Mahendradatta University*



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Industrial Engineering Department of

- Al Azhar University •Pasundan University•Trisakti University•
- Atma Jaya Catholic University of Indonesia •Esa Unggul University•
- Tarumanagara University•Mahendradatta University•

Supported by :



Indonesian Industrial Engineering
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PREFACE

Dear Colleagues,

On behalf of the Organizing Committee, I am honored to welcome you to the 7th International Seminar on Industrial Engineering and Management (ISIEM). This seminar is organized by the Industrial Engineering Department from seven Universities, namely Trisakti, Esa Unggul, Atma Jaya Jakarta, Al Azhar Indonesia, Pasundan, Tarumanagara and Mahendradatta Universities. The purpose of this seminar is to provide an effective forum for distinguished invited speakers, academicians, engineers, professionals and practitioners coming from universities, research institutions, government agencies and industries to share or exchange their ideas, experience and recent progress in industrial engineering and management and other related fields in dealing with the dynamics and challenges of the 21st century. The seminar is also expected to foster networking, collaboration and joint efforts among the conference participants to advance the theory and practice as well as to identify major trends in Industrial Engineering and Management field.

The main theme of this seminar is “**Green Technology on Industrial Engineering, Information and Management**”. Under this theme, we will explore sustainable innovation in industrial technology, information, and management concerning global issues. We also discuss approaches to collect, manage, and use any information efficiently and effectively, thus the results will be able to upgrade industrial competitiveness and value in facing the global challenges in industrial environment.

This year we received 93 paper submissions from various universities, research centers, and its affiliations. The Technical Program Committee accepted 84 selected papers that will be presented in this seminar. The accepted papers are categorized into four groups; Supply Chain Management, Production System, Operation Research, Ergonomic, Industrial Management, Quality Engineering and Management, and Decision Support System and Artificial Intelligent. And finally, the success of this seminar is due to the hard efforts of many people who we gratefully acknowledge. We also thank the authors whose papers are presented, invited keynote speakers, and all parties that we are not able to mention here.

We hope you all will enjoy the three days of discussion through this seminar and enjoy the beauty of Bali Island. We hope to see you again next year, in the 8th International Seminar on Industrial Engineering and Management (ISIEM).

Bali, March 11th, 2014

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15. Dr. Adianto, M.Sc. (Tarumanagara University, Indonesia)

AGENDA

Day 1 (March 11th, 2014)

- 18:00 - 18:30 Registration
- 18:30 - 19:30 Dinner
- 19:30 - 19:45 Opening Ceremony: Representation of Al Azhar Indonesia, Esa Unggul, Trisakti, Atma Jaya, Pasundan, Tarumanagara, and Mahendradatta University's greeting
- 19:45 - 21:00 Keynote # 1
Dr. Ramesh Shastry
(International Visiting Lecturer of Mahendradatta University)
- 21:00 - 21:15 Photo Session with all participants

Day 2 (March 12th, 2014)

- 6:30 - 8:00 Breakfast and Registration
- 8:00 - 9:15 Keynote # 2
Asst. Prof. Natcha Thawesaengskulthai
(Deputy Dean of Engineering Faculty, Chulalongkorn University, Bangkok, Thailand)
- 9:15 - 9:30 Coffee and Tea Break
- 9:30 - 12:00 Parallel session #1
- 12:00 - 13:00 Lunch break
- 13:00 - 15:30 Parallel session #2
- 15:30 - 15:45 Coffee and Tea Break
- 18:15 - 20:00 Dinner

Day 3 (March 13th, 2014)

- 6:30 - 8:30 Breakfast
- 8:30 - 10:00 Parallel session #3
- 10:00 - 17:00 City Tour

PARALLEL SESSION

MARCH 12TH SESSION 1 ROOM 1 (DSS)

Moderator : Iphov Kumala, ST, MSi

| Time | Paper | Code | Paper Code |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| 9.30-9.45 | HUMAN RESOURCE DECISION SUPPORT SYSTEM DESIGN IN MAINTENANCE DEPARTMENT OF XXL COMPANY USING WATERFALL METHOD Rayinda Pramuditya Soesanto , Amelia Kurniawati, Nia Ambarsari Telkom University | DSS | 017 |
| 9.45-10.00 | DEVELOPMENT OF DECISION SUPPORT SYSTEM FOR SELECTING QUALITY MANAGEMENT SYSTEMS AND MANAGEMENT TOOLS Saranya Sukkarn , Natcha Thawesaengkulthai Chulalongkorn University | DSS | 012 |
| 10.00-10.15 | SIMULATION MODEL DESIGN OF REFUELING SYSTEM AT PERTAMINA ALAM SUTERA GAS STATION Abel Anthony, Eric Jobiliong, Enda D. Layuk Allo Universitas Pelita Harapan | DSS | 060 |
| 10.15-10.30 | HELPDESK SYSTEM DESIGN AND DEVELOPMENT IN A UNIVERSITY BASED ON ITIL V3 FRAMEWORK (CASE STUDY: AL AZHAR INDONESIA UNIVERSITY) Endang Ripmiatin, Arum Fitriati University Al Azhar Indonesia, | DSS | 070 |
| 10.30-10.45 | CARBON MONOXIDE POLLUTION DETECTION AND MEASUREMENT USING KNOWLEDGE-BASED AND PROBABILITY APPROACHES Ferry Wahyu Wibowo, Pandan Pareanom Purwacandra Informatics Engineering, STMIK AMIKOM | DSS | 007 |
| 10.45-11.00 | EXPERT SYSTEM DEVELOPMENT FOR IMPROVING QUALITY AT RICE MILLING UNIT Dedy Sugiarto , Dadang Surjasa, Binti Solihah, Nirdukita Ratnawati, Jimmy Susanto Trisakti University | DSS | 035 |
| 11.00-11.15 | ANALYSIS OF USABILITY OPCS SOFTWARE A TEST TO THE STUDENT Rizky Junianto, Laurence, Agustina Christiani, Helena J. Kristina University of Pelita Harapan | DSS | 052 |
| 11.15-11.30 | HOW RFID TECHNOLOGY SUPPORTS E-BUSINESS PROCESSES Sudarmawan, Ferry Wahyu Wibowo, Rizqi Sukma Kharisma Informatics Engineering, STMIK AMIKOM | DSS | 008 |
| 11.30-11.45 | MANUFACTURING INFORMATION SYSTEM FOR SMALL AND MEDIUM ENTERPRISE (CASE STUDY TEXTILE SME) Nida'ul Hasanati, Munawir Biki, Muhammad Aulia Taqwa, Laksmi Saraswati, Winangsari Pradani, Nunung | DSS | 071 |

MARCH 12TH SESSION 1 ROOM 1 (DSS)

Moderator : Iphov Kumala, ST, MSi

| Time | Paper | Code | Paper Code |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| | Nurhasanah, Syarif Hidayat University Al Azhar Indonesia, | | |
| 11.45-12.00 | WASTE REDUCTION IN THE PRODUCTION PROCESS PLATE PRODUCT TYPE Pc 27 C USING VALUE STREAM MAPPING METHOD AT PT XYZ Iphov Kumala Sriwana, Arie Wijaya Esa Unggul University | DSS | 086 |

MARCH 12TH SESSION 1 ROOM 2 (DSS, IM)

Moderator : Dr. Ir. Triwulandari SD, MM

| Time | Paper | Code | Paper Code |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| 9.30-9.45 | FRAMEWORK FOR MEASURING KNOWLEDGE MANAGEMENT PERFORMANCE USING KM BALANCE SCORECARD Luciana Andrawina , Amelia Kurniawati Telkom University | DSS | 016 |
| 9.45-10.00 | ANALYSIS OF PHILIPPINES INFORMATION TECHNOLOGY BUSINESS PROCESS OUTSOURCING (IT-BPO) INDUSTRY Jason Baculinao, Yang Ching Chow Chung Yuan Christian University | DSS | 050 |
| 10.00-10.15 | INTEGRATED SYSTEM DESIGN FOR ORDER RELEASE AT MACHINING DEPARTMENT PT. ABC Pratya Poeri Suryadhini, Dida Diah Damayanti, Widia Juliani Telkom University | DSS | 025 |
| 10.15-10.30 | AN ANALYSIS OF SERVICE PERFORMANCE INFLUENCE TOWARDS CUSTOMER SATISFACTION IN SHAPING CUSTOMER LOYALTY (CASE STUDY AT X RESTORANT) Eka KA Pakpahan, Roland YH Silitonga, Metta Erikka. Institut Teknologi Harapan Bangsa | IM | 015 |
| 10.30-10.45 | ETHICAL ASPECTS IN GREEN MARKETING; AN META ANALYSIS APPROACH Erni Rusyani Pasundan University | IM | 029 |
| 10.45-11.00 | BLUE OCEAN STRATEGY WITH CONJOINT ANALYSIS APPROACH TOWARDS THE COOKING SPICE PRODUCTS Tiena Gustina Amran Trisakti University | IM | 024 |
| 11.00-11.15 | DESIGNING BUSINESS STRATEGY TO IMPROVE THE SCALE OF FOOD AND BEVERAGES INDUSTRY IN MOJOKERTO THROUGH INNOVATION WITH CLUSTER APPROACH Sri Gunani Partawi, Anny Maryani, Agung Subyakto Institut Teknologi Sepuluh Nopember | IM | 068 |

MARCH 12TH SESSION 1 ROOM 2 (DSS, IM)

Moderator : Dr. Ir. Triwulandari SD, MM

| Time | Paper | Code | Paper Code |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| 11.15-11.30 | IMPLEMENTATION SAK-ETAP, MANAGEMENT CONSULTATION, BUSINESS GOING CONCERN AND EASINESS OF CAPITAL ACQUISITION ON SMALL AND MEDIUM ENTERPRISES (SME's) IN BANDUNG Liza Laila Nurwulan and Budi Septiawan Pasundan University | IM | 031 |
| 11.30-11.45 | BUSINESS MODEL INNOVATION in INDONESIAIAN JAMU COMPANY Jahja Hamdani Widjaja Maranatha Christian University | IM | 009 |
| 11.45-12.00 | PROPOSAL OF KEY PERFORMANCE INDICATOR WITH INTEGRATION OF BALANCED SCORECARD AND PRISM FRAMEWORK (Case Study : PT TU) I Dewa Made Ari Dananjaya, Triwulandari S. Dewayana Trisakti University | IM | 076 |

MARCH 12TH SESSION 1 ROOM 3 (ER, PS)

Moderator : Ir. Lina Gozali, MM

| Time | Paper | Code | Paper Code |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| 9.30-9.45 | STATIC BACK STRENGTH - A STUDY AMONG YOUNG ADULTS Anisah. H, Hardianto Iridiastadi, Zulfa Fitri Ikatrinasari Universitas Mercu Buana & Institut Teknologi Bandung | ER | 059 |
| 9.45-10.00 | EFFECT OF THE WORK ENVIRONMENT, LEADERSHIP, WORKPLACE DESIGN, AND WELFARE FACILITIES ON WORK PERFORMANCE Abdul Djalal, Adrianus Ilra, Amalia Azka Rahmayani, Hartomo Islamic University of Indonesia | ER | 062 |
| 10.00-10.15 | DESIGNING ERGONOMIC TOOTHBRUSH, TOOTHBRUSH REFILL, AND TOOTHBRUSH CAP Andriyani Theresia, Novi, Christina Maranatha Christian University, | ER | 038 |
| 10.15-10.30 | INVENTORY DETERMINATION MODEL FOR PACKAGING MATERIALS WITH VARIOUS DEMMAND DATA DISTRIBUTIONS IN CHEMICAL COMPANY Inaki Maulida Hakim, Putri Larassati University of Indonesia | PS | 047 |
| 10.30-10.45 | INVENTORY CONTROL SYSTEM ANALYSIS OF GOODS AT COMPANY X'S MODERN TRADE Victor Suhandi, Lydiawari Silalahi, Vivi Arisandhy Maranatha Christian University | PS | 043 |
| 10.45-11.00 | INVENTORY PLANNING FOR FAST MOVING CONSUMER GOODS USING PERIODIC-REVIEW ORDER-UP-TO-LEVEL (R,S) SYSTEM IN RETAIL X BANDUNG La Nashia, Mira Rahayu, Budi Santosa C, Telkom University | PS | 023 |

MARCH 12TH SESSION 1 ROOM 3 (ER, PS)

Moderator : Ir. Lina Gozali, MM

| Time | Paper | Code | Paper Code |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| 11.00-11.15 | PREVENTIVE MAINTENANCE SCHEDULING BASED ON SERVICE CENTER AND CUSTOMER'S PERSPECTIVE (CASE STUDY: CAR TYPE X OF COMPANY Y) Yudha Prasetyawan, Mita Musoffa Asti Institut Teknologi Sepuluh Nopember (ITS) | PS | 027 |
| 11.15-11.30 | PERFORMANCE COMPARISON OF HEURISTIC LOT-SIZING MODELS Jason Baculinao, Hui-Ming Wee, Yang Ching Chow Chung Yuan Christian University Taiwan | PS | 051 |
| 11.30-11.45 | GENERATE AND TEST ALGORITHM DEVELOPMENT FOR JOB SCHEDULING IN PARALLEL MACHINES WHICH CONSIDERING SETUP TIME FOR MINIMIZING TARDINESS AND MINIMIZING MAKESPAN FOR ALTERNATIVE SEQUENCES THAT HAVE SAME TARDINESS Victor Suhandi , Melissa Septina Ismanto Maranatha Christian University | PS | 020 |
| 11.45-12.00 | SCHEDULING ANALYSIS AND METALLURGY TESTING RESOURCE ALLOCATION AT METALLURGY LABORATORY B4T BANDUNG Moh. Syarwani, Wahyukaton, Viani Ezra Azizah Pasundan University | PS | 063 |

MARCH 12TH SESSION 2 ROOM 1 (QC, OR)

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

| Time | Paper | Code | Paper Code |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| 13.00-13.15 | APPLICATION OF QUALITY FUNCTION DEPLOYMENT AND SERVQUAL FOR DESIGN SERVICE INNOVATION Waraporn Yothinsirikul, Natcha Thawesaengskulthai Chulalongkorn University | QC | 011 |
| 13.15-13.30 | DESIGN OF QUALITY PROCESS STANDARD BASED ISO 9001:2008 CLAUSE 7.5.1 FOR TRADITIONAL BATIK CAP INDUSTRY Dida D Damayanti , Sri Widaningrum, Luciana Andrawina, Irma Pramudya A Telkom University | QC | 040 |
| 13.30-13.45 | DESIGNING SETTING PARAMETER OF TABLET COMPRESSION PROCESS TO MINIMALIZE WEIGHT VARIATION Teuku Yuri Zagloel, Kinanti Rakayantias University of Indonesia | QC | 048 |
| 13.45-14.00 | QUALITY OF COMPUTER MUSIC USING MIDI LANGUAGE FOR DIGITAL MUSIC ARRANGEMENT Pandan Pareanom Purwacandra , Ferry Wahyu Wibowo Informatics Engineering, STMIK AMIKOM | QC | 032 |

MARCH 12TH SESSION 2 ROOM 1 (QC, OR)

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

| Time | Paper | Code | Paper Code |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| 14.00-14.15 | QUALITY IMPROVEMENT EFFORT USING TRIZ METHOD CASE STUDY IN CV 'X', A METALCASTING INDUSTRY Christina Wirawan , Maria Sari Desiana Maranatha Christian University | QC | 005 |
| 14.15-14.30 | PARAMETER IDENTIFICATION OF SCANNING QUALITY IN 3D LASER SCANNER: HARDWARE AND LIGHT INTENSITY SETTINGS Catharina Badra Nawangpalupi, Hanky Fransiscus, Bagus Arthaya, Adiyoga I Putra Catholic University Parahyangan | QC | 037 |
| 14.30-14.45 | THE APPLICATION OF OVERALL EQUIPMENT EFFECTIVENESS (OEE) TO ANALYZE LEAN SIX SIGMA CAPABILITY OF SHRINK LABELS PRODUCTION AT COMPANY X David Sungkono, Yurida Ekawati Ma Chung University | QC | 006 |
| 14.45-15.00 | THE MEASUREMENT OF WORKLOAD AND OPTIMAL NUMBER OF EDUCATION PERSONNEL USING WORK SAMPLING AND TASK PER JOB METHODS (A CASE STUDY AT PT X.) SYAMSUL ANWAR, JASRIL AKADEMI TEKNOLOGI INDUSTRI PADANG | OR | 018 |
| 15.00-15.15 | DEMAND FORECASTING FOR SALES ORDER AND DISTRIBUTION REQUIREMENTS PLANNING SYSTEM (CASE STUDY : IKM XYZ) Winangsari Pradani, Cut Nuraini, Anela Septieni Zulkifli, Nida'ul Hasanati, Nunung Nurhasanah, Syarif Hidayat University Al Azhar Indonesia | OR | 072 |
| 15.15-15.30 | COMPARING TRANSPORTATION COST IN CPO TENDER USING GENETIC ALGORITHM AND OPERATIONS RESEARCH TOOLS Syarif Hidayat, Rizky Betadi Putra University of Al Azhar Indonesia | OR | 001 |

MARCH 12TH SESSION 2 ROOM 2 (PS, ER)

Moderator : Dr. Lamto Widodo, ST, MT

| Time | Paper | Code | Paper Code |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| 13.00-13.15 | REENGINEERING PROCESS FOR REDUCING TIME OF PROCUREMENT AND INVENTORY PROCESS IN TELECOMMUNICATION TOWER COMPANY WITH IDEFO TOOLS AND ESIA METHOD Indramawan, Rahmat Nurcahyo, Yadrifil, M.Dachyar University of Indonesia | PS | 065 |
| 13.15-13.30 | MULTI-LEVEL INVENTORY MANAGEMENT CONSIDERING TRANSPORTATION COST AND QUANTITY DISCOUNT Eko Pratomo, Hui Ming Wee, Sukoyo Chung Yuan Christian University | PS | 054 |

MARCH 12TH SESSION 2 ROOM 2 (PS, ER)

Moderator : Dr. Lamto Widodo, ST, MT

| Time | Paper | Code | Paper Code |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| 13.30-13.45 | REFURBISHMENT OF USED MACHINE ELEMENTS FOR MAKING 2½ AXES MILLING MACHINE PROTOTYPE Bagus Arthaya, Ali Sadiyoko, Oke Setiawan Parahyangan Catholic University | PS | 004 |
| 13.45-14.00 | THE REDESIGN OF BAJAJ STUDY CASE FOR THE OLD BAJAJ IN JAKARTA Indra Gunara Rochyat, Andre Hambali, Esa Unggul University | ER | 079 |
| 14.00-14.15 | ANALYSIS OF CULTURAL ATTRIBUTE IN PRODUCT DESIGN OF CRAFT TO INCREASE PURCHASE INTENTION Lusia Permata Sari Hartanti, Dian Trihastiuti University of Pelita Harapan | ER | 041 |
| 14.15-14.30 | ANALYSIS AND IMPROVEMENT PROPOSAL OF SDN 7 KIARACONDONG BASED ON DIKNAS AUDIT VIEWED FROM ERGONOMICS ASPECT Dina Magdalena, Elty Sarvia, Winda Halim University of Kristen Maranatha, | ER | 046 |
| 14.30-14.45 | DEVELOPMENT OF MATHEMATICAL MODEL AND SOFTWARE FOR DIGITAL CIRCUMFERENCE ANTHROPOMETRIC MEASUREMENT Benedikta Anna H Siboro , Herianto Riau Kepulauan University | ER | 049 |
| 14.45-15.00 | PSYCHOMOTOR VIGILANCE TASK AS A MEASURE OF PERFORMANCE-BASED FATIGUE Rida Zuraida, Hardianto Iridiastadi Binus University, Bandung Institut of Technology | ER | 081 |
| 15.00-15.15 | PRODUCT CONCEPT OF RECHARGEABLE BATTERY FOR ENVIRONMENTALLY FRIENDLY TOWARD ELECTRONIC COMMUNICATIONS EQUIPMENT TO FACILITATE THE USER Geggy Gamal Surya, Efrhenrycx Esa Unggul University | ER | 083 |
| 15.15-15.30 | DESIGNING OF CARTON BOX STACKING TOOL TO INCREASE THE EFFICIENCY OF POND MACHINE AT PT. SUPREME TIRTA LARISINDO Lamto Widodo, Silvi Ariyanti, Alvin Khumara Tarumanagara University & Mercubuana University | ER | 077 |

MARCH 12TH SESSION 2 ROOM 3 (SCM, IM)

Moderator : Ir. Lina Gozali, MM

| Time | Paper | Code | Paper Code |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| 13.00-13.15 | POLICY ANALYSIS ON SMEs VEHICLE COMPONENTS IN ORDER TO IMPROVE ITS SUPPLY CHAIN ABILITY WITH SYSTEM DYNAMICS APPROACH M. Nurman Helmi Pasundan University | SCM | 073 |

MARCH 12TH SESSION 2 ROOM 3 (SCM, IM)

Moderator : Ir. Lina Gozali, MM

| Time | Paper | Code | Paper Code |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| 13.15-13.30 | SUPPLIER BUYER RELATIONSHIP SELECTION USING SUPPLY POSITIONING MODEL METHOD Ramadian Puspitasari, Mira Rahayu Telkom University | SCM | 022 |
| 13.30-13.45 | BIO-DIGESTER INSTALLATION PROGRAM TO IMPROVE ENERGY SECURITY: INITIATING VALUE CHAIN MODEL FOR DAIRY FARMERS IN CIATER Catharina Badra Nawangpalupi, Meity Martaleo, Loren Pratiwi, Yani Herawati Catholic University Parahyangan | SCM | 067 |
| 13.45-14.00 | STRATEGIC PROCESS DESIGN FOR FISH – BASED SMEs Sitnah Aisyah Marasabessy Ambon University of Darussalam | IM | 045 |
| 14.00-14.15 | CUSTOMER CRITERIA ANALYSIS FOR EDUCATIONAL ORGANIZATION DESIGN Hartomo, Catur Siwi Handayaningtyas Islamic University of Indonesia | IM | 061 |
| 14.15-14.30 | CRM DIMENSIONAL ANALYSIS AND ANP METHOD FOR SUB-CONTRACTOR COMPANY OF OIL AND GAS INDUSTRY IN ORDER TO REDUCE CUSTOMER COMPLAINTS Doddy Prasetyo Nugroho, Rahmat Nurcahyo, Yadrifil, M.Dachyar University of Indonesia | IM | 064 |
| 14.30-14.45 | HOW TO OBTAIN STUDENTPRENEURSHIP THROUGH ENTREPRENEURSHIP-BASED CURRICULUM JajaSuteja Pasundan University | IM | 030 |
| 14.45-15.00 | HIGHER EDUCATION INSTITUTION XYZ PERFORMANCE MEASUREMENT USING MBCfPE BASED ON KPKU-BUMN APPROACH Sugih Arijanto, Ambar Harsono Institut Teknologi Nasional (Itenas) Bandung; Indonesia Quality Award (IQA) Examiners; KPKU-BUMN Evaluator (1) | IM | 053 |
| 15.00-15.15 | ANALYSIS OF THE RELATIONSHIP BETWEEN LECTURER TEACHING METHOD FOR QUANTITATIVE COURSES AND STUDENTS' LEARNING MOTIVATION (Case Study: Industrial Engineering Department, Maranatha Christian University, Bandung-Indonesia) Yulianti, Jimmy Gozaly Maranatha Christian University | IM | 010 |
| 15.15-15.30 | BUSINESS PROCESS IMPROVEMENT: ORDER FULFILLMENT PROCESS Vivi Triyanti, Savina Salim Atma Jaya Catholic University of Indonesia | IM | 085 |

MARCH 13TH SESSION 3 ROOM 1 (QC, PS)

Moderator : Dr. Rina Fitriana, ST, MM

| Time | Paper | Code | Paper Code |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| 8.30-8.45 | DESIGN OF INSPECTION AND CLASSIFICATION PROTOTYPE FOR CERAMIC TILES BASED ON THE DIGITAL IMAGE PROCESSING Yudha Prasetyawan, Maria Christina Institut Teknologi Sepuluh Nopember | QC | 026 |
| 8.45-9.00 | PARTICLE SWARM OPTIMIZATION BASED ON BOTTLENECK MACHINE FOR JOBSHOP SCHEDULING Rahmi Maulidya Trisakti University | PS | 078 |
| 9.00-9.15 | DYNAMIC MODIFIED SPANNING TREE ALGORITHM FOR SINGLE-ROW DYNAMIC FACILITY LAYOUT PROBLEM Yogi Yogaswara Pasundan University | PS | 074 |
| 9.15-9.30 | INCREASE OF EFFICIENCY OF WORKSTATION DESIGN THROUGH PRODUCTION SCHEDULING FOR MOSLEM CLOTHES IN SME "XYZ" Nunung Nurhasanah, Laksmi Saraswati, Syarif Hidayat, Nida'ul Hasanati, Winangsari Pradani, Muhammad Aulia Taqwa, Anela Septiani Zulfikar, Cut Nuraini, Munawir Biki University of Al-Azhar Indonesia | PS | 028 |
| 9.30-9.45 | MACHINE SCHEDULING PROPOSED FOR MINIMIZING MAKESPAN AT PT ADIPERKASA ANUGRAH PRATAMA Lina Gozali , Silvi Ariyanti , Febrina Lesley Natali Tarumanagara University | PS | 002 |
| 9.45-10.00 | IMPROVEMENT WORK EFFICIENCY AND MANUFACTURING PRODUCTIVITY AT PT. XYZ WITH LINE BALANCING ANALYSIS Arief Suwandi, Prianggara NAL Esa Unggul University | PS | 090 |
| 10.00-10.15 | IMPLEMENTATION SIX SIGMA AND DATA MINING TO IMPROVE DIE CASTING PRODUCTION PROCESS AT PT. AB Rina Fitriana, Johnson Saragih, Sitta Sarasaty Trisakti University | QC | 058 |
| 10.15-10.30 | SELECTION OF OPEN SOURCE ENTERPRISE RESOURCE PLANNING (ERP) SYSTEM FOR FURNITURE MANUFACTURING SMEs AS A COMPETITIVE STRATEGY Wiwid Dolianto, Zulfa Fitri Ikatrinasari University of Mercu Buana | DSS | 080 |
| 10.30-10.45 | QUALITY STUDY OF WASTE WATER PROCESSING I Nyoman Sudipa Mahendradatta Mercur Buana | QC | 093 |

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Moderator : Niken Parwati, ST, MM

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| 8.30-8.45 | KNOWLEDGE MANAGEMENT IMPLEMENTATION WITH SECI MODEL APPROACH IN SARINAH ORGANIC FARMER GROUPS Dadang Surjasa, Dedy Sugiarto , Brian Arif Jingga, Binti Solihah, Nirdukita Ratnawati Trisakti University | DSS | 033 |
| 8.45-9.00 | SECI MODEL IMPLEMENTATION FOR IMPROVING PERFORMANCE OF RICE MILLING UNIT Dedy Sugiarto , Dadang Surjasa, Binti Solihah, Nirdukita Ratnawati, Jimmy Susanto Trisakti University | DSS | 036 |
| 9.00-9.15 | DECISION MAKING OF RAW MATERIAL SUPPLIER FOR PRODUCT PP 10160104XX IN PT. KOMPINDO FONTANA RAYA USING FUZZY AHP APPROACH Lily Amelia, Marisca Violetta Esa Unggul University | IM | 089 |
| 9.15-9.30 | IMPROVEMENT OF ONLINE TRADE SERVICE QUALITY LICENSING SYSTEM IN TRADE MINISTRY OF REPUBLIC INDONESIA M.Dachyar, Yadrifil, Asmirawati Ismail University of Indonesia | IM | 066 |
| 9.30-9.45 | TRANSLATING THE STRATEGY INTO EXECUTION : FROM STRATEGY MAP TO DASHBOARD - STUDY CASE : ENGINEERING FACULTY UNIKA ATMA JAYA Masellinus Bachtiar Atma Jaya Catholic University of Indonesia | IM | 091 |
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| 10.00-10.15 | A CHALLENGE IN IMPLEMENTING GOOD CORPORATE GOVERNANCE IN FAMILY-CONTROLLED LISTED COMPANIES IN INDONESIA Dadan Umar Daihani , Johan Darmawan Trisakti University & Maastrich School of Management | IM | 055 |
| 10.15-10.30 | DEVELOPMENT OF COMMUNITY BASED OF SUSTAINABLE TOURISM INDUSTRY IN PENGLIPURAN VILLAGE, BANGLI REGENCY, BALI PROVINCE Luh Merry Dyanthi Mahendradatta University | IM | 092 |
| 10.30-10.45 | NEW PRODUCT MARKETING STUDY : CANNA EDULIS BASED PRODUCT (FLOUR AND NOODLE) Niken Parwati, Intan Bayduri Zaputri, Nita Noriko University Al Azhar Indonesia | IM | 042 |
| 10.45-11.00 | DESIGN SYAR'I TOURISM BASED ON KANO MODEL Agus Mansura, Dzakiyah Widyaningruma, Nashrullah Setiawana Islamic University of Indonesia | IM | 021 |

MARCH 13TH SESSION 3 ROOM 3 (QC, SCM, OR)

Moderator : Andre Sugioko, ST, MT

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| 8.45-9.00 | STRUCTURE AND ACTOR ANALYSIS IN DKI JAKARTA RICE SUPPLY CHAIN Dadang Surjasa , Dedy Sugiarto, Nirdukita Ratnawati , Binti Solihah Trisakti University | SCM | 034 |
| 9.00-9.15 | CAPABILITY PROCESS ANALYSIS WELDING MACHINE HEAD CAP MODIFIED Siti Rohana Nasution, Adham Chalid Rizqie Pancasila University | QC | 039 |
| 9.15-9.30 | SIX SIGMA IMPLEMENTATION AS PREPROCESSOR TO IMPROVE SERVICE QUALITY IN UNIVERSITIES Fajar Kurniawan Saint Mary's University of Hongkong | QC | 087 |
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