

TABLE OF CONTENT

Foreword
Committee
Reviewer
Agenda
Table Of Content

QM – Quality Engineering & Management

No	Title and Author	Page
1	Design Of Water Quality Model To Support The Indonesian Healthy Project <i>Ratih Setyaningrum, Dwi Eko Waluyo</i>	QM – 1
2	Analysis Service of Satisfaction of Intercity Bus With IPA and CSI Method <i>Dyah Rachmawati L, Trismi Ristowati, Mohammad Khoeruddin</i>	QM – 6
3	Quality Analysis Using Fmea Method On Assembly Processes Of Washing Machine (Case Study In Panasonic Manufacturing Indonesia) <i>Rifa Arifati, Ardika Rismayana</i>	QM – 11
4	Pre Travelling Service Quality Analysis at Rail Station Commuter Jakarta-Bogor <i>Pudji Astuti, Winnie Septiani, Amal Witonohadi</i>	QM – 16
5	Integrating Kansei Engineering And Customer Relationship Management To Improve Service Quality: A Case Study At Shopping Mall In Surabaya <i>Markus Hartono, Rosita Meitha, Grandy Ongkowijoyo</i>	QM – 21
6	The Impact Of Perceived Service Quality on Customer Satisfaction And Loyalty: Case Study at Supermarket in Surabaya <i>Rosita Meitha Surjani, M.Arbi Hadiyat, Vanessa Gautama</i>	QM – 27
7	Quantitative Approach to Measure Process Connectivity in Balanced Scorecard Model <i>Vivi Triyanti</i>	QM – 34
8	Path Analysis To Assess Interaction Among Tracer Study Factors <i>Vivi Triyanti</i>	QM – 42
9	Consumer Preferences and Quality Perception of Imported and Domestic Apple in Surabaya <i>I Gede Agus Widyadana, Tanti Octavia, Herry Christian Palit, Dick Felix Wibowo</i>	QM – 48

SCM – Supply Chain Management

No	Title and Author	Page
1	Knowledge Management System Model in DKI Jakarta Rice Supply Chain <i>Dadang Surjasa, Dedy Sugiarto, Binti Solihah, Nirdukita Ratnawati</i>	SCM – 1
2	A Design Experiment To Evaluate The Effect Of Demand Pattern Into The Lot Sizing Performance <i>Arum Sari, Ulista Feriana</i>	SCM – 9
3	Supply Chain Management Performance Measurements in Oil Company <i>Tiena Gustina Amran</i>	SCM – 15

SCM – Supply Chain Management

No	Title and Author	Page
4	Applying Netlogo Simulation Model To Balance The Upstream Palm Oil Supply Chain Syarif Hidayat, Mas'ud Ridwan	SCM – 24
5	Hybrid Model For Supplier Selection, Procurement, And Production Catur Kurniawan, Nur Hildawati	SCM – 32
6	The Design Of Multi Role Web Based Supply Chain Simulation Game For Learning Armand Omar Moeis, Rama Raditya, Akhmad Hidayatno	SCM – 41
7	Performance Analysis Of Green Supply Chain Management In Pt Tirta Investama Subang Agus Purnomo	SCM – 48
8	Model For Supply Chain Network Design with Profit Balancing Consideration Harwati, Muhammad Ridwan Andi Purnomo	SCM – 56
9	The Influence of Supply Chain Management to Product Quality at PT XYZ in Jakarta Andi Wijaya, Richard Andrew	SCM – 62
10	Production Planning Control to Minimize Production Cost Nunung Nurhasanah, Riyana Susanti	SCM – 67
11	Measurement Supply Chain Performance Using Metric of SCOR Model (Case Study : Automotive Component Manufacturing) Nofi Erni	SCM – 75
12	Designing Green Supply Chain Management In Cocoa Agroindustry : Problem Identification And Profiling Iphov Kumala Sriwana, Yandra Arkeman, Dahrul Syah, Marimin	SCM – 81
13	Spare Parts Distribution Route Planning with Saving Matrix Method at PT.XYZ Iphov Kumala Sriwana, Sylvia Madusari, Nurulita Aulia Sari	SCM – 90

OR – Operation Research

No	Title and Author	Page
1	Crashing Project Schedule Network with Methods Selection Ismail H. Asrul	OR – 1

ER – Ergonomics

No	Title and Author	Page
1	The Analysis of The Effect on Physical Environment Factor for Noise and Luminous to Accuracy Score on Reading and Colors Matching Wahyukaton	ER – 1
2	Optimum Design of 1-DOF Anthropomorphic Thumb Considering Grasping Motion for Indonesian Low-Cost Prosthetic Hand Tyo Prasetyo, Susy Susmartini, Ilham Priadythama	ER – 7
3	The Cutting Ampoule Design Inovation to Develop Safety and Helath Patient Yuwono B Pratiknyo, Anita Purnamayanti	ER – 13

ER – Ergonomics

No	Title and Author	Page
4	Design Measurement for Manufacturing Ergonomic Value of an Automotive Part Using The Total Ergonomic Approach Model Tiena G. Amran, Nataya Charoonsri Rizani, Herawan Setio	ER – 19
5	Train Derailments In Indonesia - A Study Using Human Factors Analysis and Classification System Citra Wanurmarahayu, Hardianto Iridiastadi	ER – 29
6	Designing Workbench on The Sawmill Station to Reduce Physical Load at Surya Mas Factory Lamto Widodo, Andres, Fransisca Lipin	ER – 35

DSS – Decision Support System and Artificial Intelligence

No	Title and Author	Page
1	Database Management System Application (Case Study: Twisbles) Raymond Bahana, Hans Kristian	DSS – 1
2	A Design Of Learning Management System Using Adaptive Recommendation Method Jinsuk Yang, Kyoungsu Oh, Sangjun Lee	DSS – 9
3	Customer Relationship Management Information System Development In PT. Citra Van Titipan Kilat Fransiskus Adikara, Ricky Fauzi	DSS – 14
4	Occlusion Detection Of Virtual Target For Augmented Reality Gyeyoung Kim , Changjin Suh, Sangjun Lee, Soowon Lee	DSS – 21
5	The Emergence of User Requirement Risk In Information System Development for Industry Needs Fransiskus Adikara, Benhard Sitohang, Bayu Hendradjaya	DSS – 27
6	A Progress in Business Intelligence Implementation in CRM (Customer Relationship Management), SCM (Supply Chain Management) And Quality Management Rina Fitriana, Marimin, Taufik Djatna	DSS – 34
7	Evaluation of The VRP Completion with Developing Hybrid Genetic Algorithm Using Fuzzy Logic Controller Model Yogi Yogaswara	DSS – 44
8	Proposed Of Decision Policy Model Development For City Logistics Stakeholders Yogi Yogaswara, B. Kombaitan, Idwan Santoso	DSS – 54

PS – Production System

No	Title and Author	Page
1	Optimization of A Shock Absorber Assembly Line Using Simulation Iwan A. Soenandi	PS – 1
2	Design of Lean Production System Using Integrated Value Stream Mapping Approach Yadrifil, Irvanu Rahman, Faisal Akbar	PS – 6

PS – Production System

No	Title and Author	Page
3	Identification Performance And Machine Failure of Manufacturing System Based On OEE And FMEA Methods (Case Study On PT. APF) Jazuli, Angga Laksitama, Adelia Dini Meinawati	PS – 12
4	Automated Multi-View Visual Inspection and Grading System For Shrimp Yudha Prasetyawan, Putu Dana Karningsih, Lucky Sabrina Adluna	PS – 18
5	Maintenance Task Design And Spare Part Inventory Policy For An Evaporation Sub System Yudha Prasetyawan, Weny Yuliana Sari	PS – 26
6	Analysis of Factors Affecting Throughput Rate in Flexible Manufacturing System with Automated Guided Vehicle System Teuku Yuri M. Zagloel, Romadhani Ardi, Lusyaneko Tantri	PS – 33
7	Insertion Heuristic for The Single Row Layout Problem in Flexible Manufacturing Systems Tjutju Tarliah Dimiyati	PS – 40
8	Optimization Of MIDI Synthesizer On The Illustration Of Movie Music Pandan Pareanom Purwacandra, Ferry Wahyu Wibowo	PS – 46
9	Implementation Theory of Constraint on CFM56-3 Aircraft Engine Maintenance Untung Mahargo B. P., Hardianto Iridiastadi, E. Nina S. Y., Zulfa F. I	PS – 52
10	The Implementation Of Lean Six Sigma Method in Production Process of Underwear Rider R333B at PT. XYZ Johnson Saragih, Rahmi Maulidya, Diana Jane Halim	PS – 60
11	The Effect Of Demand Behavior Of Automotive Glass Manufacturer On Cost of Good Sold And Logistics Performance Through System Dynamics Approach M. Nurman Helmi	PS – 66
12	The Proposed Layout Design Using Factory Systematic Layout Planning Method at PT. Jasa Laksa Utama Lina Gozali, Silvi Ariyanti, Leowendo Putrajaya	PS – 72
13	Remodelling The Maintenance Performance Management System Rivan Syamsurijal Biya, Triwulandari S. Dewayana, Nora Azmi	PS – 77
14	Analysis of Outer Tube Casting Product Reject Using Computer Aided Engineering Ahmad Juang Pratama	PS – 84
15	Solving Assembly Line Balancing Problem Using Genetic Algorithm Technique with Partitioned Chromosome Nora Azmi, Iman Yahya Azzubaidi, Sumiharni Batubara	PS – 91
16	Production Scheduling Optimisation Using Genetic Algorithm in PT. Progress Diecast Lily Amelia, Aprianto	PS – 99
17	Applying Theory of Constraint and Bottleneck Scheduling Approach to Solve Production Capacity Problem Sumiharni Batubara, Rahmi Maulidya, Mega Rahma Pertiwi	PS – 106
18	Improvement Of Kanban System Based On Theory of Constraint Rahmi Maulidya, Iveline Anne Marie, Kevin	PS – 112

IM – Industrial Management

No	Title and Author	Page
1	Customization of Open Source Enterprise Resource Planning System Muhammad Ridwan Andi Purnomo, Luthfina Ariyani	IM – 1
2	The Technology Implementation in Academic Processing to Achieve Effectiveness and Efficiency Of Information (A sharing from The Private University in Bandung) Elizabeth Tiur M.	IM – 7
3	Description and Review Existing Knowledge Management Framework, System, Technology and Architecture Riya Widayanti	IM – 13
4	Implementation of Evaluation Model and Supplier Performance Scorecard in Selecting Supplier Johan Oscar Ong, Merry Erliani	IM – 28
5	The Marketing Mix Strategy Based On Consumer Behavior Analysis at Taxi Max Cipaganti In Surabaya Esti Dwi Rinawiyanti, Rosita Meitha, Ira Mayasari	IM – 39
6	Catastrophe Model for Analyzing Behaviour of Development Policies In Indonesia Dadan Umar Daihani	IM – 47
7	Understanding Accounting Franchise, Guidance by Franchisor and Going Concern of Franchise Company in Bandung Liza Laila Nurwulan, R. Mochammad Noch, Elsaf Kurniawan	IM – 56
8	Five V's in Customer's Perspective Richard Andrew, Andi Wijaya	IM – 66
9	Services Improvement with Triz and TOPSIS Method Feliks Prasepta S.Surbakti, Lenard	IM – 74
10	Defining The Collaborative Key Performance Indicators in Performance Management Marsellinus Bachtiar	IM – 81
11	Designing Map Strategy Performance Measurement Functional Units Organization Method Based on The Balanced Scorecard (Case Study XYZ University) Ahmad Chirzun, Mohamad Sulkhan	IM – 88