

TABLE OF CONTENT

Foreword
Committee
Reviewer
Table Of Content

Book One

IM – Industrial Management

No	Code	Title and Author	Page
1	R01	Encouraging Business Model Innovation To Improve Firm's Competitiveness Through Deutero-Learning And Adhocracy Culture Jahja Hamdani Widjaja	IM – 1
2	R05	e-Government: Awareness and Participation Among Malaysian Citizens Sabariyah Binti Din, Lim Ai Ling, Anand Agrawal	IM – 9
3	R06	Financing Innovation In Indonesia: A Promising Future Jean-Baptiste Morin	IM – 17
4	R11	Corporate Environment, Operations Strategy And Company Performance At Garment Industries In West Java Province Atty Tri Juniarti	IM – 21
5	R15	The Influence of Internal Control Implementation-Based Sarbanes Oxley Act (SOA) Section 404 on The Auditor's Opinion of The Public Company Management Assertions Liza Laila Nurwulan, Ika Rachmawati	IM – 29
6	R21	Formulation Of Strategies To Increase Brand Equity Poke Sushi Restaurant Using Ie Matrix Rudy Vernando Silalahi, Donny Indrawan, Andy Mitra Gunadi	IM – 40
7	R25	Developing The Maintenance Scorecard For The Quality Improvement Of Mass Transportation Service (Study at PT Kereta Api Indonesia) Emelia Sari, Didien Suhardini, Winnie Septiani	IM – 50
8	R26	Developing Business Process Model To Provide Workers In An Outsourcing Company: A Case Study Triarti Saraswati, Amelia Paramita, Invanos Tertiana	IM – 56
9	R27	Do we ready to face Globalization of Accounting? Exploratory Study of Accounting Faculties in Indonesia Wirawan ED Radianto	IM – 63
10	R29	Calibrating Competitive Factors To Define Corporate Strategies: A Case Study Liliani, Michael Siek	IM – 70
11	R30	The Effect Of Product Value And Store Image Intention To Buy Car (A Case Study Of Visitors In Surabaya OTO Seller) J.E. Sutanto	IM – 77
12	R36	Entrepreneurship Education: Enhance Indonesian economic growth and national development Widjaja Hartono	IM – 83

Table of Content

13	R39	Designing CRM Program For Telecommunication Wholesale Business Based On Customer Lifetime Value Analysis Fransiscus Rian Pratikto	IM – 88
14	R40	The Relationship Between Corporate Social Responsibility And Social ROI With Resource-Based View As Moderating Factors: A Conceptual Model Fan Liu, Ronald S.	IM – 96
15	R41	Integration David's Strategic Management Model With Balanced Scorecard Performance Management System Triwulandari S. Dewayana, Adi Irianto	IM – 103
16	R43	Cultural Changing In Global Competition Meidiahna Kusuma	IM – 111
17	R44	Study Of Airasia; World's Best Low-Cost Airline Charly Hongdiyanto	IM – 117
18	R55	Performance Evaluation Model Of Lubricant Agencies Using Balance Scorecard, Analytic Hierarchy Process, And Decision Making-Trial Evaluation Laboratory (Case Study In Pertamina Lubricants) Dwinta Utari, Fauzia Dianawati, Arief Hariyanto	IM – 124
19	R56	Relations Model Of Employee Commitment To The Organization Towards Employee Loyalty And Working Quality Fauzia Dianawati, Dwinta Utari, Hanifah Handayani	IM – 131
20	R58	Analysis Of Asset Ownership And Debt For Jakarta MRT Project In South-North Corridor (Lebak Bulus-Kampung Bandan) Romadhani Ardi, Erlinda Muslim, Dimas Setyo Utomo	IM – 139
21	R65	Computer Integrated Manufacturing Maturity Model Design In Mineral Water Industry Yudha Prasetyawan, Ria Novitasari	IM – 147
22	R70	Enhancement Fleisch And Osterle Model At PT Garuda Indonesia Base On Virtual Organization Concept Dadan Umar Daihani, Rivan Syamsurijal Biya	IM – 155
23	R71	Developing UKMGoesOnline to be a Virtual Broker in Indonesia by Adopting Vega and Virtec Matric Model Dadan Umar Daihani, I Dewa Made Ari Dananjaya, Arief Dwi Hartanto	IM – 163
24	R73	UST Method As The Effective Strategy In Credit Management Angreine Kewo, Mario Vitores	IM – 170
25	R76	A Dynamic Balanced Scorecard Of An Upstream Oil And Gas Portfolio Company Fransiscus Rian Pratikto, Karlina Eka Wahyuni	IM – 178
26	R77	Indicators For Knowledge Management Performance Measurement From Human Capital Perspective Using Knowledge Management Balanced Scorecard Amelia Kurniawati, Luciana Andrawina	IM – 187
27	R87	Analysis Of Relationship Between Internal Locus Of Control On Career Maturity Among IE Students In University Z Hans Christian Andrew Salim, Marsellinus Bachtiar Wahyu	IM – 193
28	R91	Election Analysis Of Cooperation Using The Analisis Hierarchy Process In The Development Spam Pdam Bandar Lampung City Wiwik Sudarwati	IM – 201

Table of Content

SCM – Supply Chain Management

No	Code	Title and Author	Page
1	R33	Scorecard Design For Measuring Company Performance Based On Customer And Suppliers Perspectives Case Study at KF Indonesia Eka Kurnia Asih Pakpahan, Reviandari Rizkiani	SCM – 1
2	R68	Supplier Performance Evaluation Using Data Envelopment Analysis BCC Model and Super Efficiency Model in Pumping Unit Producer Yadrifil, Maya Arlini P., Irmawati Ulfah	SCM – 7
3	R83	A Synchronization Approach for Supply Chain Performance Hedging in Cane Based Agroindustry Iphov K. Sriwana, Taufik Djatna	SCM – 14
4	R86	The Effect Of Buyers' Characteristics On The Selection Of Categories Of Indonesian Domestic Airline Service Mimi Halimin, Feliks Prasepta S. Surbakti	SCM – 21
5	R90	A Forecasting Model Of Raw Material Supply Using Artificial Neural Network Nofi Erni	SCM – 26

ER – Ergonomics

No	Code	Title and Author	Page
1	R22	Ergonomics Intervention Using Cognitive Approach In Reducing Work Error Nataya Charoonsri Rizani, Mithia Ulfa, Winnie Septiani	ER – 1
2	R45	The Influence Of Ergonomic Concept To The Work Posture And The Physical Work Environment And Its Impact On The Worker Performance (A Case Study On The Manufacturing Process Division at PT. Sinar Terang Logamjaya Bandung) M. Yani Syafei, Erwin Maulana Pribadi	ER – 7
3	R46	Breastfeeding Jacket Design Using Ergonomic Approach Mira Rahayu, Fajar Dhitya, Grita Adrinovian	ER – 16
4	R57	The Ergonomic Analysis Of Walking Posture Using Student Backpack Maya Arlini Puspasari, Arian Dhini, Komara Jaya	ER – 21
5	R62	Ergonomics Intervention To Reduce Work Load On Wood Department In Furniture Manufacturing Dian Mardi Safitri, Ni Made Putri Wulandari, Nora Azmi	ER – 27
6	R78	Standard Of Cloth Sizes For Toddler (Girl) Based On Athropometry Dimension Vivi Triyanti, Maria Santiana	ER – 34
7	R88	Workload Evaluation between Beginner and Skillful Worker (Case Study: Manual Harvesting and Transporting of Sugar Cane) Lamto Widodo, Bambang Pramudya, Sam Herodian, M. Faiz Syu'aib	ER – 40

Book Two

PS – Production System

No	Code	Title and Author	Page
1	R02	Configuration of an Industrial Ethernet Network to Control a Flexible Manufacturing System Joe Kwan Hoei	PS – 1
2	R35	Batch Scheduling In Two-Stage Flowshop With Common And Dedicated Machine To Minimize Total Actual Flow Time Pratya Poeri Suryadhini	PS – 8
3	R38	Improvement Of Assembly Line Design In PT. SMI By Lean Manufacturing Approach Sadzwina Faiza Prasasya, Dida Diah Damayanti	PS – 14
4	R48	Proposal Of Machine Maintenance Planning And Maintenance Information System (Case Study at PT. BBI) Amal Witonohadi, Dannis S. Pramudya	PS – 21
5	R49	Evaluation To Production Performance Considering Departments Distance and Route Time Using Simulation With ARENA Yogi Yogaswara	PS – 27
6	R52	The Usage Of Lean Manufacturing Concept For Reducing Waste Of Corrugated Box Cardboard Production (Case Study : at Converting Division, PT. Purinusa Eka Persada Bandung) Resha Akbar, Rd. Rohmat Saedudin, Haris Rachmat	PS – 32
7	R59	Inventory Control Of The Products For Special Sale Model Y M Kinley Aritonang, Feronika	PS – 44
8	R64	Application Synchronous Manufacturing By Using Drum-Buffer-Rope And Promodel Simulation Tiena Gustina Amran, Annisa Pranowo	PS – 49
9	R74	Considering The Time Value Of Money Into The Lot Size Decision In Material Requirement Planning Arum Sari, Ade Agus Junaedi	PS – 57
10	R75	A Preliminary Study On Safety Stock Placement Problems With Stochastic Lead Times Carles Sitompul, Dedy Suryadi, Johanna Hariandja	PS – 63
11	R82	Applying Theory Of Constraint And Particle Swarm Optimization Method To Determine The Quantity Of Product Mix Sumiharni Batubara, Rahmi Maulidya, I Komang Mahendradata	PS – 67
12	R85	Comparison Performance Analysis Between Heuristic Pour, Nawaz Ensore And Ham (NEH) Algorithm In Completing The Flowshop Scheduling At PT. XYZ Lina Gozali, Lamto Widodo, Teddy Kurniawan	PS – 73
13	R89	Applying Multi Population Genetic Algorithm to Multi Objective Scheduling System Rahmi Maulidya, Sumiharni Batubara and Mochammad Iman Fachry	PS – 81

Table of Content

QM – Quality Engineering & Management

No	Code	Title and Author	Page
1	R04	Utilization Of Chromium Waste From Tanning Industry as Ceramic Glaze Lusia Permata Sari Hartanti	QM – 1
2	R07	Quality Improvement Of Packaging Label Printouts: An Analysis And Implementation Of Six Sigma And Work Method Redesign Djoko Sihono Gabriel, Aris Triono	QM – 6
3	R08	Process Monitoring With Multivariate Control Chart For Auto Correlated Data: A Case Study At Pharmaceutical Industry Ig. Joko Mulyono, Ivan Gunawan, Suhartono	QM – 11
4	R16	Quality Control Development Based On Lean Six Sigma Method Wahyukaton	QM – 16
5	R18	Quality Improvement and Jar Cleo Product Development based on Quality Function Deployment at PT Berkah Plastic Industri Johnson Saragih, Dedy Sugiarto, Wira Nurdjana	QM – 21
6	R50	Longterm Upgrading Airport Runway's: An Approach Of Support Vector Regression Amar Rachman, Sumarsono Sudarto, Sarah Noviani	QM – 26
7	R53	Design Of TQM Scorecards For Construction Service Industry Using AHP And Fuzzy-AHP Method Based On Malcolm Baldrige National Quality Award 2009-2010 Criteria Erlinda Muslim, T. Yuri M. Zagloel, Intan Purbosani	QM – 33
8	R60	Quality Improvement Of Food Jar Products Using Six Sigma Method Leli Deswindi, Christin	QM – 40
9	R61	Analysis Of Operational Wastes In A Logistics Service Company Using Lean Six Sigma Method Syarif Hidayat, Lisa Heryani	QM – 48
10	R63	FMEA (Failure Mode And Effect Analysis), And Expert System In Lubricant Machine Oil Production Process Rina Fitriana, Andhika Mandala Utama, Johnson Saragih	QM – 56
11	R66	Automated Visual Grading And Inspection For Egg Yudha Prasetyawan, Achmad Mustakim	QM – 62
12	R79	Implementation Study Of Malcolm Baldrige Criteria For Performance Excellence (MBCFPE) In Higher Education (Case Study Of University X) Ahmad Chirzun, Adi Pranoto	QM – 70
13	R84	Customers And Employees Satisfaction Analysis With Human Sigma Approach; A Case Study In A Hotel Service Dendi Prajadhiana Ishak, Triyono	QM – 77

DSS – Decision Support System and Artificial Intelligence

No	Code	Title and Author	Page
1	R14	The Evolution of Computing: from Local Computing to Cloud Computing Maria Angela Kartawidjaja	DSS – 1
2	R19	Design Knowledge Management Model of Standarization Accounting Code System: Study Case Audit Board of Republic of Indonesia Riya Widayanti	DSS – 10

Table of Content

3	R24	Proposal For The Design Of Decision Support System For Machine Maintenance Priority In PT. Biuteknika Bina Prima Winnie Septiani, Sucipto Adi Suwiryo, Amalia Nurinsana	DSS – 18
4	R32	Comparison Of Nutritional Status Data Calculation Between K-Nearest Neighbour And Bayesian Algorithms Erni Seniwati, Ferry Wahyu Wibowo	DSS – 24
5	R37	An Architecture for Legal Knowledge-based System in Indonesia Wahyu C. Wibowo, Adriana Sari Aryani	DSS – 31
6	R67	Designing Business Process Model And Data Architecture For Information System At Fitness Center (Case Study Helios Fitness) Sonna Kristina, Rivans Liviyandi	DSS – 35
7	R81	Quality Improvement of Personal Computers Configuration Management Using IT Infrastructure Library: Study on IT Directorate of XYZ University Ahmad Juang Pratama, Paula Ruth Prawinoto	DSS – 41

OR – Operation Research

No	Code	Title and Author	Page
1	R23	A Design of Risk Transfer System for Raw Materials Commodity of Agroindustry IGA Anom Yudistira, and Lisa Ratnasari	OR – 1
2	R28	Fuzzy Multi Objective Linear Programming For Optimization Of Agroindustrial Logistic Design Pudji Astuti	OR – 13
3	R34	Heuristic For Asymmetric Capacitated Vehicle Routing Problem Tjutju Tarlih Dimyati	OR – 20
4	R51	Demand Forecasting Comparasion Between Artificial Neural Network And Support Vector Regression With Traditional Methods Sumarsono Sudarto, Amar Rachman, Rendra Satya Wirawan	OR – 27
5	R54	Determination Of Balance Ratio Load Factor And Calculation Of Waiting Time For Urban Transportation In Depok Nunung Nurhasanah, Dewi Wulandari	OR – 33
6	R69	Exponential Barrier Method in Solving Linear Programming Problems Parwadi Moengin	OR – 39
7	R72	Study and Evaluation of Methods for Solving Traveling Salesman Problem (TSP) Interaction Gani Method and Nearest Neighbor Method Mohammad Syarwani	OR – 44