

Contents

Part I Management

Looking at the Future of Industrial Engineering in Europe	3
Giovanni Mummolo	
A “Collaborative Me” Crossroad: Individual Beliefs and the Adoption of Corporate Blogs	19
Pedro Fernández-Cardador, Ángel Hernández-García and Santiago Iglesias-Pradas	
Towards Strategic Project Management	27
Víctor Hermano and Natalia Martín-Cruz	
The Impact of Innovation Management Techniques on Radical Innovation: An Empirical Study	35
Juan Ignacio Igartua, Nekane Errasti and Jaione Ganzarain	
The Logical Framework Approach and Worker Commitment	43
Carmen Jaca, Luis Paipa-Galeano, Elisabeth Viles, Ricardo Mateo and Javier Santos	
New Technologies and Entrepreneurial Intention	51
Natalia Martín-Cruz and Ana Isabel Rodríguez-Escudero	
Return of Equity Issues in the Spanish Stock Market from the Investor’s Perspective, During the 1997–2012 Period	59
Javier Parreño, Felipe Ruiz and Félix Roux	
Sustainable Balanced Scorecard: Practical Application to a Services Company	67
Alfonso Redondo Castán, José Antonio Pascual Ruano, Angel Manuel Gento Municio and Javier Muñoz Sanz	

Predisposition of Workers to Share Knowledge: An Empirical Study	77
Lourdes Sáiz, José Ignacio Díez, Miguel Ángel Manzanedo and Ricardo del Olmo	
The M.A.G. Factor. Management, Administration and Guidance. Where and How Much MAG Does Each Project Deserve and Need? A New, Original Assessment and Scoring System	85
Tom Taylor	
Information Capability in Basque Country Quality Award Winners.....	93
Marta Zárraga Rodríguez and M. Jesús Álvarez	
Part II Production	
A Model of Makespan Flow-Shop Scheduling Under Ergonomic Requirements.....	105
Sabina Asensio Cuesta, Pedro Gómez Gasquet, Carlos Andrés Romano and María del Mar Eva Alemany Díaz	
A MILP Event Based Formulation for a Real-world Multimode RCSP with Generalized Temporal Constraints.....	113
Tamara Borreguero-Sanchidrián, Álvaro García-Sánchez and Miguel Ortega-Mier	
NTIGen: A Software for Generating Nissan Based Instances for Time and Space Assembly Line Balancing	121
Manuel Chica Serrano, Óscar Cordón García, Sergio Damas Arroyo and Joaquín Bautista	
Appropriate Work Design in Lean Production Systems	129
Uwe Dombrowski, Eva-Maria Hellmich and Tim Mielke	
Two Simple Constructive algorithms for the Distributed Assembly Permutation Flowshop Scheduling Problem	139
Sara Hatami, Rubén Ruiz and Carlos Andrés Romano	
Applications of the Lagrangian Relaxation Method to Operations Scheduling.....	147
Juan José Lavios, José Alberto Arauzo, Ricardo del Olmo and Miguel Ángel Manzanedo	
Toward Various Exact Modeling the Job Shop Scheduling Problem for Minimizing Total Weighted Tardiness	155
Mohammad Namakshenas and Rashed Sahraeian	

Set-up Continuity in Tactical Planning of Semi-Continuous Industrial Processes 165
 David Pérez Perales, Maria del Mar Eva Alemany Díaz, Francisco-Cruz Lario Esteban and V. S. Fuertes-Miquel

Estimating Costs in the EOQ Formula 175
 Pilar I. Vidal-Carreras, Jose P. Garcia-Sabater, Maria Valero-Herrero and Cristina Santandreu-Mascarell

Part III Logistics and Supply Chain

Order Promising Process for Supply Chains with Lack of Homogeneity in the Product..... 185
 Maria del Mar Eva Alemany Díaz, Andrés Boza, Angel Ortiz and Raúl Poler

Modeling the Master Plan for Supply Chains with Lack of Homogeneity in the Products..... 193
 Maria del Mar Eva Alemany Díaz, Llanos Cuenca, Angel Ortiz and David Pérez Perales

Packaging Logistics. A Case Study in Dairy Sector 201
 Jesús García Arca, J. Carlos Prado Prado and A. Trinidad González-Portela Garrido

Best Practices in Sustainable Supply Chain Management: A Literature Review 209
 Ana María Mejías Sacaluga and Juan E. Pardo Froján

Supplier Evaluation and Selection: A Review of the literature since 2007 217
 Joan Ignasi Moliné and Ana María Coves

Logistic Management Employing Tabu Search and Neural Network Algorithms: A Case Study 225
 Isidro Peña García-Pardo and Fausto Pedro García Márquez

Multiagent Model for Supply Chain Management..... 233
 Borja Ponte Blanco, Raúl Pino Díez, Isabel Fernández Quesada, Nazario García Fernández and Manuel Monterrey Meana

Part IV Methods and Applications

Revisiting the SEC Classification Framework in Traditional and Electronic Commerce 243
 Ángel F. Agudo-Peregrina, Julián Chaparro-Pélaez and Félix J. Pascual-Miguel

A Roadmap to Establish Collaboration Among SMEs Belonging to Non-Hierarchical Networks	251
Beatriz Andres and Raul Poler	
Incorporating the Work Pace Concept into the <i>MMSP-W</i>	261
Joaquín Bautista, Rocío Alfaro, Cristina Batalla and Alberto Cano	
Applying the LEGOstics concept in formal education at Technical University of Cartagena	269
Peter Bajor, María Victoria de la Fuente Aragón and Lorenzo Ros-McDonnell	
Neural Network Application for Risk Factors Estimation in Manufacturing Accidents	277
Jesús Antonio Carrillo-Castrillo, José Guadix Martín, Rafael Grosso de la Vega and Luis Onieva	
A New Constructive Heuristic for the Fm block ΣT	285
Ramon Companys Pascual and Imma Ribas Vila	
Applying Cluster Analysis to Renewable Energy Emergent Sector at Local Level	293
Jaso Larruscain, Rosa Río-Belver, Ernesto Cilleruelo, Gaizka Garechana and Javier Gavilanes-Trapote	
How Organizational Cybernetics can Help to Organize Debates on Complex Issues	301
José Pérez Ríos, Iván Velasco Jiménez and Pablo Sánchez Mayoral	
Agent-Based Modelling and Archaeological Complexity	309
David J. Poza and Ricardo del Olmo	
Complex Networks Applied to Communication Management in Emergency Crisis	317
Cristina Ruiz Martín, Mario Ramírez Ferrero, José Luis González Álvarez and David J. Poza	
Localization Based on Business Interactions Through a Simulated Annealing Algorithm	325
Rosa M ^a Sánchez-Saiz, José Manuel Galán and José Ignacio Santos	
Methodology for the Strategic Capacity Planning in Universities	333
Rocio de la Torre, Amaia Lusa and Manuel Mateo	



<http://www.springer.com/978-3-319-04704-1>

Managing Complexity

Challenges for Industrial Engineering and Operations

Management

Iglesias, C.H.; López-Paredes, A.; Pérez Ríos, J.M. (Eds.)

2014, XVII, 340 p. 76 illus., 66 illus. in color., Hardcover

ISBN: 978-3-319-04704-1