

# Contents

## Part I Business Administration and Economic Environment

<b>1</b>	<b>A Characterization of Types and Determinant Factors for Corporate Entrepreneurship: A Case Study-Based Analysis</b> . . . . .	<b>3</b>
	Enertiz Onaindia Gerrikabeitia, Unai Goyogana Quesada and Carlos Ochoa Laburu	
<b>2</b>	<b>Activity-Based Costing, Time-Driven Activity-Based Costing and Lean Accounting: Differences Among Three Accounting Systems' Approach to Manufacturing</b> . . . . .	<b>11</b>
	Carlos Rodríguez Monroy, Azadeh Nasiri and Miguel Ángel Peláez	
<b>3</b>	<b>Operational Characterisation of a Micro-SME Producing Farmhouse Cheese in the South of Venezuela</b> . . . . .	<b>19</b>
	C. Rodríguez Monroy, E. Cardozo, W. Guaita and M. Pelaez	
<b>4</b>	<b>Analysis of the Operating Efficiency of Mobile Operators During the 2002–2008 Period</b> . . . . .	<b>27</b>
	Félix Roux Martínez, Felipe Ruiz López and Santos Eguren	
<b>5</b>	<b>Challenges in Data-driven Hotel Infrastructure Assignment Decisions</b> . . . . .	<b>37</b>
	Rajesh Natarajan, Esmeralda Giraldo and Alfonso Duran	
<b>6</b>	<b>Economic Analysis of the Renewable Energy Policies in the European Union</b> . . . . .	<b>45</b>
	Roberto Rodríguez, Carlos Rodríguez-Monroy and Miguel Ángel Peláez	

<b>7</b>	<b>Analyzing the Chinese Development and Its Impacts on the Brazilian Economy</b> . . . . .	<b>53</b>
	Ana Paula Lisboa Sohn	
<b>8</b>	<b>Rethinking the Social Contract: An Agent-Based Model Approach</b> . . . . .	<b>61</b>
	Marta Posada and Cesáreo Hernández-Iglesias	
<b>Part II Technological and Organizational Innovation</b>		
<b>9</b>	<b>The Importance of Strategic Alignment in Enterprise Collaboration</b> . . . . .	<b>71</b>
	Alix Vargas, Andrés Boza, Llanos Cuenca and Angel Ortiz	
<b>10</b>	<b>Infrastructure Assignment Reference Metamodel</b> . . . . .	<b>79</b>
	Miguel Gutierrez and Alfonso Duran	
<b>11</b>	<b>Innovation Infrastructures Assessment Through Knowledge Management Models</b> . . . . .	<b>87</b>
	José Teba, Luis Onieva, Gerardo Jiménez and Jesús Muñuzuri	
<b>12</b>	<b>Managing Systems and Innovation: An Empirical Study of Basque Firms</b> . . . . .	<b>97</b>
	Juan Ignacio Igartua, Nekane Errasti and Noemi Zabaleta	
<b>13</b>	<b>Knowledge Management Practices in SME: Case Study in Basque Country SME</b> . . . . .	<b>105</b>
	Izaskun Alvarez, Ernesto Cilleruelo, Ibon Zamanillo and Enara Zarrabeitia	
<b>Part III Logistics and Supply Chain Management</b>		
<b>14</b>	<b>Internal and External Supply Chain Integration: Construct Definition and Validation</b> . . . . .	<b>115</b>
	Juan A. Marin-Garcia, Rafaela Alfalla-Luque and Carmen Medina-López	
<b>15</b>	<b>Characterizing Productive Processes with Lack of Homogeneity in the Product and Its Impact on the Master Planning and Order Promising</b> . . . . .	<b>123</b>
	M. M. E. Alemany, F. Alarcón, Ll. Cuenca and A. Ortiz	

**16 The Reduction of CO<sub>2</sub> Emission into the Supply Network Design: A Review of Current Trends in Mathematical Models. . .** 131  
 Carola Pinto and Anna M. Coves Moreno

**17 Design of a Continuous Review Stock Policy . . . . .** 139  
 Sofia Estellés-Miguel, Manuel Cardós, José Miguel Albarracín and Marta Elena Palmer

**18 MILP Model for Designing the Intermodal Inland Terminals and Seaports Network: A Case Study . . . . .** 147  
 Julien Maheut, S. Furió and C. Andrés

**19 Modeling of Integrated Management System of Sugar Cane: Taking Advantage of Sugarcane Agriculture Residues . . . . .** 155  
 Maritza Correa Valencia, Gloria Mercedes López Orozco and Adriana Carolina Lozano Riascos

**20 An Overnight Parcel Logistics Company’s Capillary Distribution Network Design by Regression Analysis . . . . .** 163  
 Oscar Rioja San Martín and Joaquim Lloveras Maciá

**21 Optimization of Recyclable Waste Collection Using Real-Time Information . . . . .** 171  
 R. Grosso de la Vega, J. Muñozuri Sanz, M. Rodríguez Palero and J. Teba Fernandez

**Part IV Production and Operations Management**

**22 Managing Qualities, Tones and Gages of Ceramic Supply Chains Through Master Planning . . . . .** 181  
 M. I. Mundi, M. M. E. Alemany Díaz, A. Boza and R. Poler

**23 Strategic Capacity Planning in KIOs: A Classification Scheme. . .** 191  
 C. Martínez, A. Lusa, M. Mas, R. de la Torre and M. Mateo

**24 Leagility in Enterprise Networks Configuration of Capital Goods Sector . . . . .** 199  
 Raquel Sanchis, Eduardo Saiz, Eduardo Castellano and Raul Poler

**25 Minimizing the Makespan on Parallel Batch Scheduling with Stochastic Times . . . . .** 209  
 R. Sahraeian, F. Samaei and I. Rastgar

<b>26</b>	<b>A Makespan Minimization in an m-Stage Flow Shop Lot Streaming with Sequence Dependent Setup Times: MILP Model and Experimental Approach. . . . .</b>	<b>217</b>
	Pedro Gómez-Gasquet, Rubén Segura Andrés, Rubén D. Franco Pereyra and Carlos Andrés-Romano	
<b>27</b>	<b>A Modified Approach Based on Ranking Fuzzy Numbers for Fuzzy Integer Programming with Equality Constraints . . . . .</b>	<b>225</b>
	Manuel Díaz-Madroñero, Josefa Mula and Mariano Jiménez	
<b>28</b>	<b>Modeling and Solving a Variant of MMSP-W Problem with Production Mix Restrictions . . . . .</b>	<b>235</b>
	Joaquín Bautista, Alberto Cano and Rocío Alfaro	
<b>29</b>	<b>Coordination Mechanism for MILP Models to Plan Operations Within an Advanced Planning and Scheduling System in a Motor Company: A Case Study . . . . .</b>	<b>245</b>
	J. Maheut, J. P. Garcia-Sabater, J. J. Garcia-Sabater and J. Marin-Garcia	
<b>30</b>	<b>Lean-Six Sigma Approach put into Practice in an Empirical Study . . . . .</b>	<b>255</b>
	Martínez S. Miguélez, A. Errasti and J. A. Alberto	
<b>31</b>	<b>Lean Toolbox for Seasonal Process Industries: A Nougat Fabrication Case Study . . . . .</b>	<b>263</b>
	M. Tanco, J. Santos, J. L. Rodríguez and J. Reich	
<b>32</b>	<b>Systematic Improvement of IT Processes: Application of CMMI.DEV in Implementation of ERP . . . . .</b>	<b>273</b>
	M. Grijalvo Martín, A. Ocampo Aguirre and Ana M. Vargas	
<b>Part V Management Systems and Sustainability</b>		
<b>33</b>	<b>Quality, Environment and Safety: From Individual Systems to Integration—A Portuguese Case Study . . . . .</b>	<b>283</b>
	Gilberto Santos, Síría Barros and Manuel Rebelo	
<b>34</b>	<b>Evaluation of the Business Process Management Practices: An Application in the Company of Oil and Gas Exploration and Production . . . . .</b>	<b>291</b>
	Moacyr A. D. Figueiredo, Gilson Brito Lima, José Rodrigues de Farias Filho, Debora A. Herkenhoff, Lívia C. Figueiredo and Carolina C. Figueiredo	

**35 Safety Management Models in Manufacturing Companies . . . . . 299**  
 J. A. Carrillo, J. Guadix and L. Onieva

**36 Strategic Packaging Logistics: A Case Study from a Supply Chain Perspective. . . . . 307**  
 Jesús García-Arca, J. Carlos Prado-Prado and A. Trinidad González-Portela Garrido

**37 Insights into Corporate Social Responsibility Measurement . . . . . 315**  
 Diego Pérez López and Ana Moreno Romero

**38 Personnel Participation: A Review of Its Role in Corporate Social Responsibility Models and Standards . . . . . 323**  
 A. J. Fernández-González, R. Fernández-Pérez and J. C. Prado-Prado

**39 A Performance Measurement Framework for Monitoring Supply Chain Sustainability . . . . . 331**  
 M. J. Verdecho, J. J. Alfaro-Saiz and R. Rodríguez-Rodríguez

**Part VI Papers Prize–Award**

**40 A Methodology to Share Profits and Costs in Non-Hierarchical Networks. . . . . 341**  
 Beatriz Andrés and R. Poler

**41 Fill Rate in a Periodic Review Base Stock System Under Discrete Distributed Demand for the Backordering Case . . . . . 351**  
 E. Babiloni, E. Guijarro, M. Cardós and S. Estellés

**42 A Proposed Collaborative Network Enterprise Model in the Fruit-and-Vegetable Sector Using Maturity Models . . . . . 359**  
 Maria Alonso-Manzanedo, M. Victoria De-la-Fuente-Aragon and Lorenzo Ros-McDonnell

**43 Incorporating Small-Scale Farmers into Sustainable Supply Chains: A Case Study . . . . . 367**  
 Inma Borrella, Ruth Carrasco-Gallego, Carlos Mataix and Ramón Fisac



<http://www.springer.com/978-1-4471-5348-1>

Annals of Industrial Engineering 2012  
Industrial Engineering: overcoming the crisis  
Prado Prado, J.C.; García Arca, J. (Eds.)  
2014, XI, 374 p. 59 illus., Hardcover  
ISBN: 978-1-4471-5348-1