

Contents

Part I Management Engineering and Organizational Sciences

- 1 The Evolution and Classification of Management and Organizational Sciences. A Personal Interpretation** 3
F. Solé Parellada
- 2 An Approach to the Industrial Organization Engineering Background in Spain.** 11
Ramón Companys, Fco-Cruz Lario, Eduardo Vicens-Salort,
Raúl Poler and Angel Ortiz
- 3 Sixty Years of Economics: Some Lessons for the Future** 25
Cesáreo Hernández
- 4 The New Industrial Organization.** 69
Ricardo del Olmo Martínez and Adolfo López-Paredes

Part II The Governance System of the Firm

- 5 The Application of the Viable System Model to Enhance Organizational Resilience** 95
Cristina Ruiz-Martin, José Manuel Pérez Rios, Gabiel Wainer,
Javier Pajares, Cesáreo Hernández and Adolfo López-Paredes
- 6 Supply Chain Management: The Systemic Challenge.** 109
Borja Ponte, Isabel Fernández, Nazario García, Raúl Pino
and David de la Fuente
- 7 Project Management Methodologies in the Fourth Technological Revolution** 121
Javier Pajares, David Poza, Felix Villafañez
and Adolfo López-Paredes

8	Knowledge and Innovation in the New Industrial Organization	145
	Lourdes Sáiz-Bárcena, Miguel Ángel Manzanedo del Campo and Ricardo del Olmo Martínez	
9	Institutional Endowment and Innovation Strategies	155
	Cesar Gamez-Alcalde, Carmen De Pablos-Heredero and Natalia Martin-Cruz	
 Part III Heuristics, Intelligent Systems and Agent Based Modelling		
10	A Critical Sight to the NEH Heuristic	169
	Ramón Companys and Imma Ribas	
11	A Brief Introduction to the Use of Machine Learning Techniques in the Analysis of Agent-Based Models	179
	María Pereda, José Ignacio Santos and José Manuel Galán	
12	Emergence, Culture and Organizational Structure	187
	Marta Posada and Inés Magdaleno	
13	A Study of the Innovative Applications of Intelligent Transport Systems Works to Logistics and Freight Transport: Public-Private Collaboration Projects	195
	Moisés Javato-Martín, Pedro Sanz-Angulo, Juan José de Benito-Martín and Jesús Galindo-Melero	
 Part IV Innovative Teaching Activities in Management Engineering		
14	Lean School: A Practical Space of Cooperative Learning from the Factory to the University	209
	Ángel Manuel Gento, Juan José de Benito, Pedro Sanz and José Antonio Pascual	
15	A Review of the Innovative Teaching Activities Carried Out by the School of Industrial Engineering of the University of Valladolid in the Field of Business Organization	221
	Pedro Sanz-Angulo, Juan José de Benito-Martín, Ángel Manuel Gento-Municio, Alfonso Redondo-Castán, José Antonio Pascual-Ruano, Jesús Galindo-Melero and Moisés Javato-Martín	

Advances in Management Engineering

Hernández, C. (Ed.)

2017, XVII, 232 p. 62 illus., 54 illus. in color., Hardcover

ISBN: 978-3-319-55888-2