Contents

Part I  Project Management

Comprehensive Reorganization of Project Management:
A Case Study ................................................ 3
Unai Apaolaza and Aitor Lizarralde

Part II  Civil Engineering, Urbanism and Urban Planning.
Building and Architecture

The Dilemma of Innovation in the Construction Company:
A Decade of Lessons Learned .......................... 21
Eugenio Pellicer, Víctor Yepes, Christian Luis Correa
and Luis Fernando Alarcón

Part III  Product and Process Engineering and Industrial Design

Study on the Influence of Fresh White Cheese Packaging
Design Variables on Users’ Perception .................. 37
Ignacio Gil, Rubén Rebollar, Iván Lidón and Javier Martín

Study, Design, Development and Construction
of a Linear Tribometer for Testing Human Skin .......... 51
Eurico Seabra, Luis F. Silva, José Martins and Mário Lima

3D Myocardial Modelling by Computational Geometry
Techniques. Analysing Performance ..................... 67
F. Cavas, F.J.F. Cañavate, J. Nieto and D.G. Fernández-Pacheco

Part IV  Environmental Engineering and Natural Resource
Management

Study of the Energy Recovery of the Reject Materials
from Municipal Solid Waste Treatment Plants in Spain .... 81
I. Sánchez-López, A. Gallardo and N. Edo-Alcón
Review of Options for Solving Problems of Frazil Ice in Industrial Water Intakes ........................................ 95
R. Luiña Fernández, M.A. Vigil Berrocal, J.M. Mesa Fernández and A. Fernández Iglesias

Environmental Behaviour of an Element of the Construction Sector .............................................. 109
Maria Luz García Ceballos, José Ramón de Andrés Díaz and Francisco Pinto Oliver

Identification and Measurement of Complementarity Variables in Strategic Projects of Water Irrigation from the Sustainability Practices. Case: Republic of Ecuador .................. 121
Galo Fernando Gallardo Carrillo, Elena Melía Martí, Marta García Mollá and Miguel Ángel Artacho Ramírez

Part V Energy Efficiency and Renewable Energies

Aging Model for Re-used Electric Vehicle Batteries in Second Life Stationary Applications ............ 139
Lluc Canals Casals, Beatriz Amante García and Maria Margarita González Benítez

Assessing the Energy Saving Potential for Building Stock and Choice of Rehabilitation Strategy by a Multicriteria System .... 153
Sergio Muñoz Gómez, Sagrario Conejero, Bernardino Morillo Merino, Rubén Gregori and José-Luis Vivancos

Adapting Buildings to the Current CTE-DB-HE: A Single-Family Housing Development in Logroño (La Rioja) .......... 167
Luis M. López-González, César García-Lozano, Jesús Las-Heras-Casas and Luis María López-Ochoa

Geographic Information System for Optimization and Integration of Photovoltaic Solar Energy in Agricultural Areas with Energy Deficiency and Water Scarcity ......................... 181
Álvaro Rubio-Aliaga, M. Socorro García-Cascales, Ángel Molina-García and Juan M. Sánchez-Lozano

Part VI Rural Development and Development Co-operation Projects

Guadua angustifolia as a Structural Material for Greenhouse Design ........................................... 201
Eduardo Garzón, Manuel Cano García, Luis Pérez-Villarejo, Sergio Martínez-Martínez and Pedro José Sánchez-Soto
Contents

Part VII IT and Communications. Software Engineering

Evaluation of the State of Cutting Tools According to Its Texture Using LOSIB and LBP Variants ................................. 217
Oscar García-Olalla, Laura Fernández-Robles, Eduardo Fidalgo, Víctor González-Castro and Enrique Alegre

Part VIII Safety, Labour Risks and Ergonomics

SAFEBUS: A New Active Safety System for Pedestrian Detection in Public Passenger Buses ........................................ 231
Juan F. Dols Ruiz, Leopoldo Armesto, Vicent Girbés and Laura Arnal

Part IX Training in Project Engineering

Implementation of BIM in the Subject Technical Industrial Projects—Degree in Industrial Technologies Engineering—University of Valladolid ................................................. 247
Moisés Blanco Caballero, Patricia Zulueta Pérez, Ignacio Alonso Fernández-Coppel and Alberto Sánchez Lite

Technological Immersion in Industrial Engineering for a Project Management Course to Develop Dual Use Technology .............. 261
José Luis Roca-González, Juan Miguel Sánchez-Lozano, Germán Rodríguez-Bermúdez, Pedro José García-Laencina and Antonio Juan Briones-Peñalver

Quantitative and Qualitative Analysis of Project-Based Learning to Acquire Competencies in Project Management ............... 275
Dante A. Guerrero Chanduví, María del Carmen Barreto Pérez, Catherin Girón Escobar and Diego Saavedra Agurto
Project Management and Engineering Research
AEIPRO 2016
Ayuso Muñoz, J.L.; Yagüe Blanco, J.L.; Capuz Rizo, S.
(Eds.)
2017, IX, 289 p. 126 illus., 101 illus. in color., Hardcover
ISBN: 978-3-319-51858-9