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15th International Conference on Industrial Engineering and Industrial Management

XXV Congreso de Ingeniería de Organización



8th July

11:20-13:00	1	Operations Research, Modelling and Simulation	Chairperson: Amaia Lusa	017	Decentralized, Fast and Scalable Almost-Global Convergence in Single-Optimum Coordination Problems	Javier Rodríguez Martín, Luis R. Izquierdo, Segismundo Izquierdo
				037	A mathematical methodology for planning the slitting process in the steel industry	Maria Sierra Paradinas, Óscar Soto Sánchez, Antonio Alonso Ayuso, F. Javier Martín Campo, Micael Gallego
				045	Multi-Objective Model to Improve the Quality and Freshness of Sold Vegetables through Retailer Funding	Ana Estesó, María del Mar Alemany Díaz, Angel Ortiz, Hervé Panetto
				046	The relationship between protective capacity and protective inventory in the implementation of the third step of the theory of constraints in make-to-stock environments: An assessment by simulation	Aitor Orue Irasuegui, Aitor Lizarralde Aiestui, Unai Apaolaza, Alvaro García-Sánchez
				054	Wind Turbine Alarm Management with Motif Search applied in Internet of the Things Platform	Isaac Segovia Ramírez, Fausto Pedro García Márquez, Alba Muñoz del Río
	2	Operations Research, Modelling and Simulation	Chairperson: Josefa Mula	069	A practical approach to prioritize water supply and sewer networks interventions	Cristóbal Ramos Salgado, Jesús Muñuzuri, Pablo Aparicio Ruiz, María-Luisa Muñoz-Díaz
				070	A MILP model for lot-sizing and scheduling of automotive plastic components with availability of packaging	Eduardo Guzmán Ortiz, Beatriz Andres, Raúl Poler
				075	Layout optimisation for production systems in the wool industry using discrete event simulation	Ruba Al-zqebah, Florian Hoffmann, Jochen Deuse, Nicholas Bennett, Lee Clemon
				076	Early multi-fault diagnosis in induction motors	Mario Juez-Gil, Juan José Saucedo-Dorantes, Álvar Arnaiz-González, Carlos López-Nozal, César García-Osorio
				088	Covid-19 Impact on Supply Chain Management. Current Global Situation	Luis Isasi, Jesús Morcillo, Alfonso Duran Heras
	3	PhD track	Chairperson: Miguel Ortega	063	Industry 4.0 from an institutional perspective: a systematic literature review	Diego Rorato Fogaça, Mercedes Grijalvo, Mario Sacomano Neto
				065	Mapping the technological profile of Collaborative Robots: a patent analysis	Jon Borregan-alvarado, Izaskun Alvarez-meaza, Ernesto Cilleruelo, Gaizka Garechana-anacabe
				074	Advanced methods and models of optimization and data visualization for the management, monitoring and control of operations in companies working in collaborative manufacturing environments	Efraín Pérez, Raúl Poler
				078	Social life cycle assessment: mapping scientific knowledge	Naiara Pikatza, Izaskun Alvarez-Meaza, Rosa Rio-Belver, Enara Zarrabeitia
	4	Strategy, Innovation, Networks and Entrepreneurship	Chairperson: Natalia Martín	005	Industry 4.0 and Airspace Operations Research with EU financial contribution	Jose Antonio Calvo Fresno, Jesús Morcillo, Beatriz rodrigo moya
				012	Replenishment Subscription Boxes - A Business Model Canvas Perspective	Miguel Rodríguez García, Iria González Romero, José Carlos Prado Prado
				021	Dealing with the externalities of the sharing economy: effect of Airbnb in long-term rental prices in the city of Madrid	Roi Marque, Gustavo Morales, Yilsy Núñez, Antonio Hidalgo
				034	Mapping the scientific structure of Organization and management of enterprises using complex networks	Alicia Olivares-Gil, Adrián Arnaiz-Rodríguez, José Miguel Ramírez-Sanz, José Luis Garrido-Labrador, Virginia Ahedo, César García-Osorio, José I. Santos, José Manuel Galán
				036	Twitter data mining: Green energy trends analysis	Enara Zarrabeitia, Jordi Morales-i-Grass, Rosa Rio-Belver, Gaizka Garechana-Anacabe
	5	Supply Chain Management and Logistics	Chairperson: Miguel Gutiérrez	013	An analytical study to define the optimal store for the order picking process in e-grocery	Mar Fernández Vázquez-Noguerol, Iago Portela, José Carlos Prado Prado
024				Enablers and barriers to Industry 4.0 implementation	Blanca M. Guerrero, Josefa Mula, Guillermina Tormo	
032				How does blockchain impact on supply chains?	Jesús Morcillo-Bellido, Jesus Morcillo Garcia, Lucia Romero Fernandez-Cuartero	
043				Industry 4.0 practices in pharma sector supply chain	Jesús Morcillo-Bellido, Ramón Merino Fuentes	
047				Packaging Rationalization in Sustainable Supply Chains. A Case Study in the Food Sector	Iván González Boubeta, Jesus Garcia Arca, José Carlos Prado Prado	
17:30-18:30	1	Circular Economy	Chairperson: Javier Santos	007	Fostering industrial symbiosis. Potential drivers and barriers	Marta Ormazabal, Fabianna García, Carmen Jaca, John Rincon, M. Jesús Alvarez
				049	Exploring the impact of Environmental Management Systems on Circular Economy adoption	Alexandra Barón Dorado, Gerusa Gimenez, Rodolfo De Castro
				026.	Simbiosis Industrial en España: Estado Actual, Obstáculos y Oportunidades	Pablo Pérez Fernández, Borja Ponte, Raul Pino, isabel fernandez
	2	Sustainability, Eco-efficiency and Quality Management	Chairperson: Mareva Alemany	052	Life Cycle Assessment of Autonomous Surface Vehicles	Pedro Jose Bernalte Sanchez, Mayorkinos Papaelias, Valter Jantara Junior, Fausto Pedro Garcia Marquez
				085	Rethinking the Spanish vehicle environmental labelling	Victoria Salmerón Marazuela, Miguel Ortega-Mier, Eduardo Caro Huertas, Miguel Gutiérrez
				112	Green Aspects on Value Stream Mapping	Andrea E. Pilalao-Morales, Pilar I. Vidal-Carreras
	3	Strategy, Innovation, Networks and Entrepreneurship	Chairperson: Rosa María Río-Belver	066	Business Model Innovation through Sharing and Platform Economies: The Role of the UE	Ángel García Cuevas, Gustavo Morales, Cristina Destefano, Ruth Carrasco-Gallego
				086	Climate Finance in the banking sector. Key drivers for a sustainable business model	Carmen García-Wang, Mercedes Grijalvo, Agustín Figueroa
				121	Análisis económico y de tarifas del sector de aguas urbanas en España	María Rodríguez-Palero, Alicia Robles Velasco, Elena Barbadilla-Martín, Pablo Aparicio Ruiz, José Guadix Martín
	4	Production Planning and Control Project and Process Management	Chairperson: Antonio López Arquillos	109	A Maturity Model for Industry 4.0 Manufacturing Execution Systems	Miguel Ángel Mateo Casali, Francisco Fraile, Andrés Boza, Raúl Poler
				025	Sports events and project management. A PM2 proposal	José Antonio Caminero-Granja, Javier Pajares, Natalia Martín-Cruz
				099	Project management methodologies and efficiency. An analysis of international development cooperation projects	Ana Martín-Crespo, Natalia Martín-Cruz, Javier Pajares
	5	Management Information Systems and Knowledge Management Service Systems	Chairperson: Raúl Poler	055	The green hydrogen conceptualization map, a tool to accelerate knowledge transfer	Willmer Guevara Ramirez, Rosa Rio-belver, Itziar Martinez De Alegria
				119	A Methodology for Avoiding Corporate Amnesia in the Industry 4.0	Ramona-Diana Leon, Raúl Rodríguez, Juan-José Alfaro-Saiz
				040	EVOLUTION OF SERVICITIZATION THROUGH ITS NEW BUSINESS TYPOLOGIES	Aitor Ruiz de la Torre, David Sanchez
	6	PhD track	Chairperson: Alejandro Escudero	038	Proposal of a methodology and associated techniques for the design and management of the global supply chain operations strategy according to a circular economy criterion	Darwin Aldas, Manuel Díaz-Madroñero, Josefa Mula
				083	Supply chain resilience: a conceptual evolution analysis	Antonio Xavier Zavala-Alcivar, María-José Verdecho, Juan-José Alfaro-Saiz

Day	Time	Track	Chairperson	Topic	Presenters	
9th July	9:30-11:10	1 Supply Chain Management and Logistics	Chairperson: Beatriz Andrés	125	Hacia la Internet Física: un modelo que afianza la sostenibilidad con un necesario enfoque de transformación industrial	Carlos Alonso de Armiño, Roberto Alcalde Delgado, Luis Santiago García Pineda
				080	Packaging design for competitiveness. Examples from a sustainable supply chain perspective	Jesus Garcia Arca, A. Trinidad González-portela Garrido, Iván González Boubeta, José Carlos Prado Prado
				106	Methodology for the evaluation of supply chain collaborative planning scenarios through its mathematical modelling and integrated resolution. Application to the ceramic sector.	David Perez-Perales, Faustino Alarcón, Andrés Boza, Pedro Gomez-Gasquet
				110	Modelo de programación matemática para el abastecimiento colaborativo entre cadenas de suministro competitivas del sector del calzado	Mario Seni, David Peidro
				120	Using IoT in the Reverse Supply Chain: A system dynamics approach for improving performance	Pascual Cortés, Faustino Alarcón, David Perez-perales
		2 PhD track	Chairperson: Patxi Ruiz de Arbuló	090	Digital twin for a zero-defect operations planning in supply chain 4.0	Julio César Serrano Ruiz, Josefa Mula, Raúl Poler
				091	Teoría de juegos evolutiva para el diseño de algoritmos eficientes en problemas de control distribuido	David Gonzalez Asenjo, Luis R. Izquierdo, Javier Sedano Franco
				107	Artificial Neural Networks to forecast pipe failures in water supply networks	Alicia Robles-Velasco, Cristóbal Ramos-Salgado, Jesús Muñuzuri, Pablo Cortés
				117	A MILP model to solve a sheltered employment center rostering problem: a case study	Julien Maheut, Sofia García-Manglano, Jose P. Garcia-Sabater, Julio J. García-Sabater
		3 Management Information Systems and Knowledge Management	Chairperson: Alfonso Durán	010	Modelo de gestión de activos para empresas de infraestructuras hídricas	Pablo Aparicio Ruiz, Jesús Muñuzuri, Luis Onieva, Cristóbal Ramos Salgado
				039	A bibliometric analysis of the Time Driven Activity Based Costing system. The power of cost accounting in organisations	Patxi Ruiz-de-Arbulo-López, Jesús Rodríguez-Martín, Jordi Fortuny-Santos, Beñat Landeta
				057	A comparison of occupational accidents in the manufacturing and construction sector through data mining techniques	Clodoaldo Polo Barrera, María Martínez-Rojas, Juan Carlos Rubio-Romero
	100			El Sistema de Información Geográfica Provincial como gemelo digital de las Entidades Locales. Caso de análisis de viabilidad: la ciencia de datos aplicada a las políticas de despoblación en la provincia de Córdoba.	José Luis Caballano Alcántara, Juan Carlos Cobos Murillo, Mª Carmen Alonso Urbano, Luis Sánchez Melgar	
	111			Concept for Deployment Design of Machine Learning Models in Production	Henrik Heymann, Andrés Boza	
	4 Operations Research, Modelling and Simulation	Chairperson: Jesús Muñuzurri	094	A non-parametric enhancement of the Cycle Service Level estimation	Eugenia Babiloni, Ester Guijarro, Juan ramon trapero, Enrique Holgado de Frutos	
			095	Annualized hours, multiskilling and overtime on annual staffing problem: an uncertainty approach.	Andrés Porto, Amaia Lusa, César Augusto Henao, Roberto Porto Solano	
			097	Saving Time and Money in Top Motorsport Through Balance of Performance (BoP Simulation	Luis Isasi, José Viyeira, Juan Pedro Arbáizar Gómez	
			101	Conceptual Framework for Optimization Models in Industry 4.0 Context: Application to Production Planning	Ana Esteso, Andrés Boza, María del Mar Alemany Díaz, Pedro Gomez-Gasquet	
			102	Approach to Artificial Intelligence for Production Scheduling	Pedro Gomez-Gasquet, Alejandro Torres Castells, Ana Esteso, Maria Angeles Rodriguez	
	5 Education in Organizational Engineering	Chairperson: Rodolfo de Castro	014	A managerial approach to Industry 4.0 training	Juan Ignacio Igartua, Jabier Retegi, José Alberto Eguren	
			042	Decision biases in human queuing systems: a simulation model to use in the class	María Pereda	
			048	Analysing the student online activities in an Organization Engineering course during COVID-19 lockdown	Guillermo Castilla, Alfonso Duran Heras, Luis Isasi	
			061	La predicción de enlaces como competición Kaggle para la enseñanza de la ciencia de las redes	Virginia Ahedo, José I. Santos, José Manuel Galán, Luis R. Izquierdo	
			072	Metodología docente para el desarrollo competencial en Ingeniería	Rocio Alfaro-Pozo, Joaquín Bautista	
	13:00-14:00	1 Human Resources and Organizational Design	Chairperson: Ana Moreno	009	Integración, aprendizaje y gestión del uso de dispositivos IoT para la mejora de la seguridad en obras	María del Carmen Rey-Merchán, Antonio López-Arquillos, José Manuel Soto-Hidalgo
122				Industry 4.0 influencing the retirement age of workers – Supply chain perspective	David Bogataj, Marija Bogataj, Francisco Campuzano-Bolarín, José Andrés Moreno-Nicolás	
096				Cognitive Ergonomics Perspective to boost Human-centred Innovations in Industry 4.0	Juan Antonio Torrecilla-García, Mª del Carmen Pardo-Ferreira, Juan Carlos Rubio-Romero	
2 Strategy, Innovation, Networks and Entrepreneurship		Chairperson: Ana Rodríguez Olalla	118	Creating circular economy value from photovoltaic modules' waste	David Hidalgo, Ruth Carrasco-Gallego	
			023	Appropriate technology: A scoping review	Laura del Río Carazo, Santiago Iglesias Pradas, Emiliano Acquila-Natale	
			058	Sustainable finance: an analysis of the elements that make up environmental, social, and governance (ESG bond issues	Daniel Lopez Creamer, Yilsy M. Nuñez Guerrero, Angel Huerga, Carlos Monroy	
3 Production Planning and Control		Chairperson: Jesús García Arca	067	Machine Learning-based analysis of a wind turbine manufacturing operation	Antonio Lorenzo-Espejo, Alejandro Escudero-Santana, María-Luisa Muñoz-Díaz, Alicia Robles Velasco	
			068	Modelos lineales mixtos para la programación de la producción con una sola etapa: estado del arte	María-Luisa Muñoz-Díaz, Alejandro Escudero-Santana, Antonio Lorenzo-Espejo, Alicia Robles Velasco	
			081	A framework for Production Planning in Additive Manufacturing	Juan De Antón Heredero, Félix A Villafáñez, David J Poza, Adolfo LópezParedes	
4 Education in Organizational Engineering		Chairperson: Rocio Alfaro-Pozo	082	Diseño de una actividad de sistemas de información para entornos docentes flexibles	Karen Reina Sánchez, Álvaro Pérez, Guillermo Castilla, Juan Pedro Arbáizar Gómez, Alfonso Duran Heras	
			089	UC3M Tecnocamp Entrepreneurship Workshop. A Good Tool to Foster Youth Entrepreneurship	Luis Isasi, Guillermo Castilla, Francisco Antonio Rivera Riquelme, ALFONSO DURAN HERAS	

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