PROGRAMA DE DOCTORADO EN TECNOLOGÍAS DE LA COMPUTACIÓN E INGENIERÍA AMBIENTAL
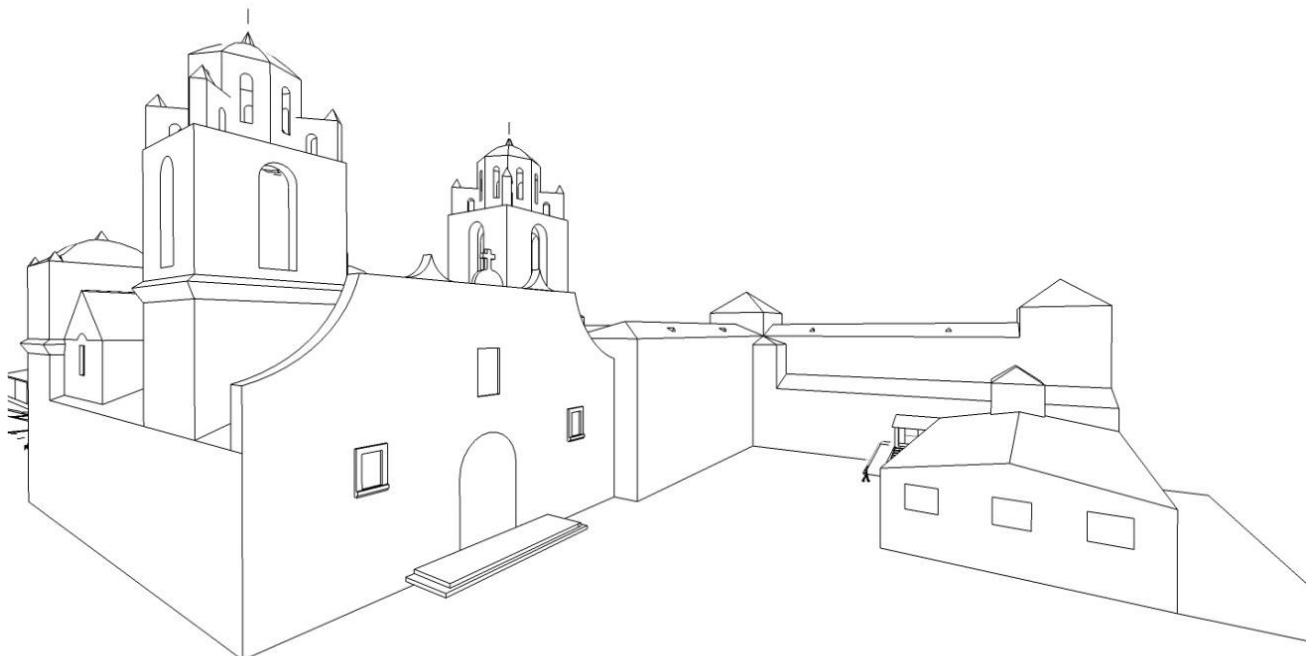
Código	EVIDENCIA
E41	**Datos relativos a los resultados de investigación derivados de las tesis doctorales leídas en el programa de doctorado**

EVIDENCIA 41 (E41)

Datos relativos a los resultados de investigación derivados de las tesis doctorales leídas en el programa de doctorado.

SE APORTA:

Referencia completa de las contribuciones científicas derivadas de las tesis doctorales relacionadas con la evidencia E40. En relación con la repercusión objetiva de las mismas que se aporta, es la misma indicada en la evidencia E29.

Doctorando	Título tesis	Tipo contribución	Autores	Título	Publicación	Indicadores de calidad
Teresa Pilar Real Herráiz	Diseño de nueva placa tranviaria de mezcla bituminosa amortiguadora de vibraciones	Art 1	**Herráiz, T. R**., Herráiz, J. I. R., Domingo, L. M., & Domingo, F. C.	Posidonia oceanica used as a new natural fibre to enhance the performance of asphalt mixtures.	Construction and Building Materials, Vol. 102, pp. 601-612 (2016)	I.F: 3,169 Engineering, Civil, 11/125, Q1 (D1)
		Art 2	Montalbán Domingo, L., Real Herraiz, J. I., Zamorano, C., & **Real Herraiz, T.**	Design of a new high lateral resistance sleeper and performance comparison with conventional sleepers in a curved railway track by means of finite element models.	Latin American Journal of Solids and Structures, Vol. 11, pp. 1238-1250 (2014)	I.F: 1,272 Engineering, Civil, 45/125, Q2
		Art 3	Real Herráiz, J. I., Zamorano, C., Asensio Serrano, T., & **Real, T**.	Study of the mitigation of tram-induced vibrations on different track typologies.	Journal of Vibroengineering, Vol. 15, pp. 2057-2075 (2013)	I.F: 0,660 Engineering, Mechanical, 82/128, Q3
		Art 4	Real Herráiz, J. I., Asensio Serrano, T., Montalban Domingo, M. L., Zamorano, C., & **Real, T**.	Railway traffic induced vibrations: comparison of analytical and finite element models.	Journal of Vibroengineering, Vol. 15, pp. 1723-1732 (2013)	I.F: 0,660 Engineering, Mechanical, 82/128, Q3
		Art 5	Montalbán, L., Real, J., & **Real, T**.	Mechanical characterization of railway structures based on vertical stiffness analysis and railway substructure stress state.	Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, Vol. 227, pp. 74-85 (2013)	I.F: 0,743 Engineering, Mechanical, 76/128, Q3
		Art 6	**Herráiz, T. R.,** Domingo, L. M., Martinez, J. H. A., Prieto, J. M. B., & Herráiz, J. I. R.	New Environmental Bituminous Mixture for Slab Track Design in Tram Networks	Advances in Structural Engineering, Vol. 18, pp 2117-2127 (2015)	I.F: 0,577 Construction & Building Technology, 45/61, Q3
Antonio Llanes Castro	Optimización de algoritmos bioinspirados en sistemas heterogéneos CPU-GPU	Art 1	Almeida, F., Cuenca, J., Giménez, D., **Llanes-Castro, A**, & Martínez-Gallar, J. P.	A framework for the application of metaheuristics to tasks-to-processors assignation problems.	Journal of Supercomputing, Vol. 62, pp. 698-723 (2012)	I.F: 0,917 Computer Science, Theory & Methods, 39/100, Q2

			Authors	Title	Journal	Impact Factor
		Art 2	Guerrero, G. D., Cecilia, J. M., **Llanes, A**, García, J. M., Amos, M., & Ujaldón, M.	Comparative evaluation of platforms for parallel Ant Colony Optimization.	Journal of Supercomputing, 69, pp. 318-329 (2014)	I.F:0,858 Computer Science, Hardware & Architecture, 25/50, Q2
		Art 3	**Llanes, A**, Cecilia, J. M., Sánchez, A, García, J. M., Amos, M., & Ujaldón, M.	Dynamic load balancing on heterogeneous clusters for parallel ant colony optimization	Cluster Computing, Vol. 19, pp. 1-11 (2016)	I.F: 2,040 Computer Science, Theory & Methods ,32/104, Q2
		Art 4	**Llanes, A**, Muñoz, A., Bueno-Crespo, A, García-Valverde, T., Sánchez, A, Arcas-Túnez, F., & Cecilia, J. M.	Soft Computing Techiniques for the Protein Folding Problem on High Performance Computing Architectures	Current drug targets, Vol. 17, pp. 1626-1648 (2016)	I.F: 3,236 Pharmacology & Pharmacy, 72/257, Q2
Baldomero Imbernón Tudela	Estrategias de paralelización para la optimización de métodos computacionales en el descubrimiento de nuevos fármacos	Art 1	**B. Imbernón Tudela;** J. Prades Gasulla; D. Gimenez Canovas; J.M. Cecilia Canales; F. Silla Jimenez.	Enhancing large-scale docking simulation on heterogeneous systems: An MPI vs rCUDA study	Future Generation Computer Systems, Vol. 70, pp 26-37 (2017)	I.F: 4,639 Computer Science, Theory & Methods, 7/103, Q1 (D1)
		Art. 2	**B. Imbernón Tudela**; J.M. Cecilia Canales; H.E. Pérez; D. Giménez Canovas	METADOCK: A parallel metaheuristic schema for virtual screening methods.	The International Journal of High Performance Computing Applications, Vol. 32, pp. 789-803 .(2018).	I.F: 2.015 Computer Science, Hardware & Architecture, 15/52, Q2
María Magdalena Cantabella Sabater	Modelos y herramientas para la representación y análisis de datos en LMS para enseñanzas universitarias	Art 1	**M.M. Cantabella Sabater**; B. López; A. Caballero; A. Muñoz Ortega.	Una herramienta para el seguimiento del profesorado universitario en Entornos Virtuales de Aprendizaje.	Revista Española de Documentación Científica. Vol.39, pp. 1-15 (2016).	IF: 0.573 Information Science & Library Science, 58/89, Q3
		Art 2	**M.M. Cantabella Sabater;** B. López; A. Caballero; A. Muñoz Ortega.	Analysis and evaluation of lecturers' activity in Learning Management Systems: Subjective and objective perceptions.	Interactive Learning Environments, Vol.26, pp. 911- 923 (2018).	IF:1.604 Education & Educational Research ,Q1

		Art 3	**M.M. Cantabella Sabater;** R. Martínez España; B. López; J.A. Yañez; A. Muñoz Ortega	Analysis of student behavior in learning management systems through a Big Data framework.	Future Generation Computer Systems, Vol. 90, pp 262-272 (2019)	I.F: 4,639 Computer Science, Theory & Methods, 7/103, Q1 (D1)
Patricia Jimeno Sáez	Simulación de procesos hidrológicos utilizando técnicas de machine learning y modelos hidrológicos	Art 1	J. Senent-Aparicio, **P. Jimeno-Sáez**, A. Bueno-Crespo, J. Pérez-Sánchez, D. Pulido-Velázquez.	Coupling machine-learning techniques with SWAT model for instantaneous peak flow prediction.	Biosystems Engineering, Vol. 177, pp 67-77 (2019)	I.F.: 2,132 Agriculture, Multidisciplinary, 9/56, Q1
		Art 2	Senent-Aparicio, J, Liu, ST, Perez-Sanchez, J, Lopez-Ballesteros, A, **Jimeno-Saez, P**.	Assessing Impacts of Climate Variability and Reforestation Activities on Water Resources in the Headwaters of the Segura River Basin (SE Spain).	Sustainability, Vol. 10, art. 3277 (2018)	I.F.: 2,075. Environmental Sciences 121/242, Q2
Francisco Javier Rodríguez Martínez	Simulación atomística de superredes de aleaciones de FeCr.	Art 1	**FJ Rodríguez-Martínez,** JF Castejón-Mochón, P Castrillo, R Berenguer-Vidal, I Dopico, I Martin-Bragado.	Kinetic Monte Carlo simulation of phase-precipitation versus instability behavior in short period FeCr superlattices.	Nuclear Instruments and Methods in Physics Research B, Vol. 393, pp. 135-139 (2017).	I.F: 1,323 Nuclear Science & Technology, 11/33, Q2
Mariano González García	Estudio y predicción de la absorción de contaminantes emergentes procedentes de aguas regeneradas en cultivos hortícolas de la Región de Murcia	Art 1	**M. González García,** C. Fernández-López, F. Pedrero-Salcedo, J.J. Alarcón.	Absorption of carbamazepine and diclofenac in hydroponically cultivated lettuces and human health risk assessment	Agricultural Water Management, Vol. 206, pp 42-47 (2018)	I.F: 3,182 Water Resources, 12/90, Q1
José Manuel Guillén Navarro	Analysis of pharmaceutical compounds in WWTP of the Region of Murcia and its ecotoxicological effects in the Guadalentín River	Art 1	Martínez-Alcalá, I., **Guillén-Navarro, J. M.**, & Fernández-López, C.	Pharmaceutical biological degradation, sorption and mass balance determination in a conventional activated-sludge wastewater treatment plant from Murcia, Spain	Chemical Engineering Journal, Vol. 316, pp. 332-340 (2017).	I.F.:6.735 Engineering, Chemical 7/137, Q1 (D1)

Isabel María Timón Pérez	Desarrollo eficiente de algoritmos de clasificación difusa en entornos Big Data	Art 1	J. M. Cecilia, **I. Timón,** J. Soto, J. Santa, F. Pereñíguez and A. Muñoz.	High-Throughput Infrastructure for Advanced ITS Services: A Case Study on Air Pollution Monitoring.	IEEE Transactions on Intelligent Transportation Systems, Vol. 19, pp. 2246-2257 (2018).	I.F:4,051 Engineering, Electrical & Electronic, 35/260, Q1
		Art 2	**I. Timón**; J.A. Soto Espinosa; H. Emilio Pérez; J.M. Cecilia Canales.	Parallel implementation of fuzzy minimals clustering algorithm.	Expert Systems with Applications. Vol. 48, pp. 35-41 (2016).	I.F:3.928 Computer Science, Artificial Intelligence, 4/133, Q1 (D1)
Antonio Vicente Contreras	El mercado de divisas FOREX como un modelo elástico de red.	Art 1	**A. V. Contreras**; A. Llanes Castro; A. Pérez Bernabeu; S. Navarro; H.E. Pérez; J. J. López Espín; J.M. Cecilia Canales.	ENMX: An elastic network model to predict the FOREX market evolution.	Simulation Modelling Practice and Theory, Vol. 86, pp. 1-10 (2018)	I.F: 2.092 Computer Science, Software Engineering, 21/104, Q1
Antonio Jesús Banegas Luna	Desarrollo de herramientas bioinformáticas fácilmente usables y accesibles vía web con aplicabilidad general en contextos farmacológicos, agrícolas, nutracéuticos y cosméticos	Art 1	**Benegas-Luna AJ**, Imbernón B, Llanes Castro A, et al.	Advances in Distributed Computing With Modern Drug Discovery.	Expert Opinion on Drug Discovery, Vol. 14, pp. 9-22 (2018)	I.F: 4,692 Pharmacology & Pharmacy, 23/261, Q1 (D1)
		Art 2	**Benegas-Luna AJ**, Cerón-Carrasco JP, Pérez Sánchez H.	A review of ligand-based virtual screening web tools and screening algorithms in large molecular databases in the age of big data.	Future Medicinal Chemistry, Vol. 10, pp. 2641-2658 (2018)	I.F: 3.969 Chemistry, Medicinal, 9/59, Q1
		Art 3	**Benegas-Luna AJ**, Cerón-Carrasco JP, Pérez Sánchez H.	BRUSELAS: HPC Generic and Customizable Software Architecture for 3D Ligand-Based Screening of Large Molecular Databases.	Journal of Chemical information and modeling, Vol. 59, pp. 2805-2817 (2019).	I.F: 3.804 Computer Science, Information Systems, 20/148, Q1