

Part A. PERSONAL DATA

Short CV DATE

08/01/2022

PART A PERSONAL DATA			
Name	JOSÉ SANTAMARÍA LÓPEZ		
ID Card Number	78682418Q	Age	44
Researcher ID Number	Researcher ID	A-6415-2011	
	Orcid	0000-0002-2022-6838	
Personal Website	https://www4.ujaen.es/~jslopez		

A.1. Professional state

Institution	University of Jaén		
Department	Computer Science		
Address	EPS Jaén, Campus Las Lagunillas, 23071, Jaén. Edif. A3, 109. Spain		
Telephone	+34 953212878	Email	jslopez@ujaen.es
Website	http://www4.ujaen.es/~jslopez/		
Academic Level	Associate Professor	Years	Since 2005
UNESCO Code	1203.17, 2506.05, 3304.06		
Keywords	HIGH PERFORMANCE COMPUTING, DEEP LEARNING, PARALLEL COMPUTATION, SOFTWARE ENGINEERING, SOFT COMPUTING, NUMERICAL OPTIMIZATION, COMPUTER VISION, IMAGE PROCESSING.		

A.2. Academic level (degree, institution, date)

Degree	University	Year
PhD. Computer Science	Granada	2006

A.3. General descriptors of scientific quality indicator (extracted from Thomson Reuters Web of Science, Scopus and Mendeley Databases)

Descriptor	Count
Citations number (Scopus)	920.0
Number of PhDs supervised	2.0
Number of Q1 ranked publications	17.0
Number of six-years research periods (acknowledged by CNEAI agency)	2.0
H-index (Mendeley)	19.0
Number of publications (journals and conferences)	70.0
Date of last acknowledged six-years research period	31/12/2017

Part B. Short summary of CV

Born in Barcelona (1977). Since 2006, he holds a PhD in Computer Science. His research interest is focused on Computer vision and Machine Learning paradigms. His scientific production began in 2003, and in 2005 he initiated his professional career as a university professor until today. He has held different positions as Teaching Staff and Researcher at the universities of Cádiz, Granada and, currently, Jaén as Associate Professor since 2016. He has been recognized by the CNEAI Spanish agency with 2 six-years research periods. He is in charge of the research group "Applied Computational Engineering Research Group". He has successfully supervised several master degree and PhD students. Moreover, he has participated as principal researcher and team member in many research projects with Regional, National and European Funding (FP7 Programme). He has published more than 70 scientific contributions (H-Index=19), with more than thirty papers being accepted by international journals indexed in the JCR database, most of them ranked first quartile (Q1). He is co-inventor of a patent with international coverage (US20120182294A1), operated by the European Centre for Soft Computing. He has been awarded with the "IFSA Award for Outstanding Applications of Fuzzy Technology". He actively performs professional tasks as reviewer and Editorial Board Member for several prestigious international journals from IEEE, Nature, MDPI, and Springer.

Part C. More recent publications

C.1. Publications

2021

Journal paper. Singh P., Devi K.J., Thakkar H.K., Santamaría J.; **Blind and Secured Adaptive Digital Image Watermarking Approach for High Imperceptibility and Robustness..** Entropy. (2021), 23(12), 1650; <https://doi.org/10.3390/e23121650>

Journal paper. Nasser A.R., Hasan A.M., Humaidi A., Alkhayyat A., Alzubaidi L., Fadhel M.A., Santamaría J., Duan Y.; **IoT and Cloud Computing in Health-care: A New Wearable Device and Cloud-based Deep Learning Algorithm for Monitoring of Diabetes.** Electronics. (2021), 10(21), 2719; <https://doi.org/10.3390/electronics10212719>

Book chapter. Santamaría J., Rivero-Cejudo M.L.; **User Vs. Self-tuning Optimization: A Case Study on Image Registration.** Applied Soft Computing: Techniques and Applications. Eds. Samarjeet Borah and Ranjit Panigrahi. Apple Academic Press – CRC Press. ISBN-978-1-77463-029-7, 2021.

Journal paper. Alzubaidi L., Duan Y., Al-Dujaili A., Ibraheem I.K., Alkenani A.H., Santamaria J., Fadhel M., Al-Shamma O., Zhang J.; **Deepening into the suitability of using pre-trained models of ImageNet against a lightweight convolutional neural network in medical imaging: an experimental study.** PeerJ Computer Science. (2021), 7:e715; <https://doi.org/10.7717/peerj-cs.715>

Journal paper. Rai D., Thakkar H.K., Rajput S.S., Santamaria J., Bhatt C., Roca F.; **A Comprehensive Review on Seismocardiogram: Current Advancements on Acquisition, Annotation, and Applications.** Mathematics. 2021, 9(18), 2243; <https://doi.org/10.3390/math9182243>

Journal paper. Alzubaidi L., Fadhel M.A., Al-Shamma O., Zhang J., Santamaría J., Duan Y., Oleiwi S.R.; **Robust Application of New Deep Learning Tools: An Experimental Study in Medical Imaging.** Multimed. Tools. Appl. (2021). <https://doi.org/10.1007/s11042-021-10942-9>

Journal paper. Alzubaidi L., Zhang J., Humaidi A.J., Al-Dujaili A., Duan Y., Al-Shamma O., Santamaría J., Fadhel M.A., Al-Amidie M., Farhan L.; **Review of deep learning: concepts, CNN architectures, challenges, applications, future directions.** Journal of Big Data (2021). <https://doi.org/10.1186/s40537-021-00444-8>

Journal paper. Alzubaidi L., Al-Amidie M., Al-Asadi A., Humaidi A.J., Al-Shamma O., Fadhel M.A., Zhang J., Santamaria J., Duan Y.; **Novel Transfer Learning Approach for Medical Imaging with Limited Labeled Data.** Cancers. 2021, 13(7), 1590. <https://doi.org/10.3390/cancers13071590>

2020

Journal paper. Santamaria J., Rivero-Cejudo M.L., Martos-Fernández M.A., Roca F.; **An Overview on the Latest Nature-Inspired and Metaheuristics-Based Image Registration Algorithms.** Appl. Sci. 2020, 10, 1920. <https://doi.org/10.3390/app10061928>

Journal paper. Alzubaidi L., Fadhel M.A., Al-Shamma O., Zhang J., Santamaría J., Duan Y., Oleiwi S.R.; **Toward a Better Understanding of Transfer Learning for Medical Imaging: A Case Study.** Appl. Sci. 2020, 10, 4523. <https://doi.org/10.3390/app10134523>

C.2. Research Projects

Regional Fundings Project: Title: “**Clasificación automática de restos arqueológicos obtenidos con técnicas inteligentes de reconstrucción 3D** (Automatic classification of archaeological remains from intelligent techniques of 3D reconstruction)”. Fundings granted by Caja Rural de Jaén and Universidad de Jaén. Santamaría López, José (University of Jaén). Years: 2 (2011-2013). 7.000,00 EUR. José Santamaría is **In Charge**.

European Fundings Project: Title: “**MIBISOC: MEDICAL IMAGING USING BIO-INSPIRED AND SOFT COMPUTING**”. Herrera Triguero, Francisco (University of Granada). Years: 5 (2009-2013). 374.655,8 EUR. Jose Santamaría is a **Team member**.

National Fundings Project: Title “**SOCOVI2: Nuevos Desarrollos sobre Soft Computing y Visión por Ordenador en Identificación Forense** (New developments on Soft Computing and Computer Vision for Forensic Identification)”. Damas-Arroyo, Sergio (University of Granada). Years: 3 (2013-2015). 47.970,00 EUR. José Santamaría is a **Team member**.

C.3. Patents

Cordón-García, Oscar; Damas-Arroyo, Sergio; Ibáñez-Panizo, Óscar; **Santamaría-López, José**; Alemán-Aguilera, Inmaculada; Botella-López, Miguel Cecilio. **Forensic identification system using craniofacial superimposition based on soft computing**. US20120182294A1. Operated by TREELOGIC.

Link: <https://patents.google.com/patent/US20120182294A1/it>

C.4. Awards

2011 IFSA Award for Outstanding Applications of Fuzzy Technology.