

CV date	19/02/2024
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Part A. PERSONAL INFORMATION

First and Family name	Javier Plaza Miguel		
Social Security, Passport, ID number	28950261T	Age	44
Researcher codes	ResearchID	C-4452-2008	
	SCOPUS Author ID(*)	8982355100	
	Open Researcher and Contributor ID (ORCID) **	0000-0002-2384-9141	

A.1. Current position

Name of University/Institution	University of Extremadura		
Department	Computer technology and Communications		
Address and Country	Centro Universitario de Mérida 38, 06800 Mérida, Spain		
Phone number	+34924673076	E-mail	jplaza@unex.es
Current position	Full Professor	From	2020
Key words	High Performance Computing, image processing, hyperspectral analysis		

A.2. Education

PhD in Computer Science	University of Extremadura	2008
Computer Science Engineering	University of Extremadura	2002

A.3. JCR articles, h Index, thesis supervised...

Dr. Plaza is author or co-author of more than 200 publications, including more than 90 JCR journal papers (>60 Q1 and >50 IEEE Journals), 4 edited special issue, 8 book chapters and over 100 peer-reviewed international conference proceedings. He has received more than 12200 cites, with an h-index of 48 (February 2024). He has been involved in more than 20 research projects, including 8 European Projects and 8 National Projects. He has supervised 3 PhD. Thesis. He is Senior Member of IEEE since 2015 and Associate Editor of [IEEE Geoscience and Remote Sensing Letters](#) (Neural Networks and High Performance Computing) since 2016 and Associate Editor of [IEEE GRSS Remote Sensing Code Library since 2017](#). He is a Full Professor with the Department of Technology of Computers and Communications of the University of Extremadura. He has been recognized as a Highly Cited Researchers (Clarivate Analytics) since 2023.

Part B. CV SUMMARY (max. 3500 characters, including spaces)

Javier Plaza was born in Caceres, SPAIN, in 1979. He received the Computer Engineer degree in 2002, the M.Sc. degree in 2004, and the Ph.D. degree in 2008, all in Computer Engineering. He was the recipient of the Outstanding Ph.D. Dissertation Award at the University of Extremadura in 2008. He is a Full Professor with the Department of Technology of Computers and Communications of the University of Extremadura, where he has taught more than 18 different courses in Bachelor, Master and PhD. Degrees.

Dr. Plaza has authored or co-authored around 200 scientific [publications](#), including more than 90 JCR journal papers, 4 edited special issue, 8 book chapters and over 100 peer-reviewed international conference proceedings. He has received more than 12200 cites, with an h-index of 48 (February 2024). Dr. Plaza is Senior Member of IEEE and the IEEE Geoscience and Remote Sensing Society (GRSS) since 2009. He is Associate Editor of [IEEE Geoscience and Remote Sensing Letters](#) (Neural Networks and High Performance Computing) since 2016 and Associate Editor of [IEEE GRSS Remote Sensing Code Library since 2017](#). He is also member



of the Editorial Board of several JCR indexed journals related with Computer Science. He has served as a Reviewer for more than 300 papers submitted to more than 40 different journals, including several top journals such as NATURE or IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, various prestigious GRSS journals such as the PROCEEDINGS OF THE IEEE, TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, the IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATION AND REMOTE SENSING, the IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, the IEEE GEOSCIENCE AND REMOTE SENSING MAGAZINE, and also other prestigious IEEE journals such as the IEEE TRANSACTIONS ON IMAGE PROCESSING, the IEEE TRANSACTIONS ON SIGNAL PROCESSING and IEEE TRANSACTIONS NEURAL NETWORKS AND LEARNING SYSTEMS. Dr. Plaza has served as a proposal evaluator for the Spanish Ministry of Science and Innovation since 2008. He has also served as proposal evaluator for the Luxembourg National Research Fund, the Czech Science Foundation and the Chilean National Science and Technology Commission.

Dr. Plaza has been visiting researcher/professor in the following institutions: Remote Sensing, Signal and Image Processing Laboratory (RSSIPL) del Department of Computer Science and Electrical Engineering, University of Maryland, Baltimore County; AVIRIS group at NASA's Jet Propulsion Laboratory, Pasadena, California; School of Geography and Planning, Sun Yat-Sen University, Guangzhou, China.

Dr. Plaza is a recipient of the 2019 Best Paper award at the 2019 Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS), for the contribution entitled "Efficient Convolutional Neural Network for Spectral-Spatial Hyperspectral Denoising." Dr. Plaza is a recipient of the IEEE Signal Processing Magazine Best Column Paper Award, for the contribution entitled "Parallel Hyperspectral Image and Signal Processing" published in the IEEE Signal Processing Magazine in April 2011. He received the Top Cited Article award of Elsevier's Journal of Parallel and Distributed Computing (in 2005-2010) for the contribution entitled "Commodity Cluster-Based Parallel Processing of Hyperspectral Imagery." He is a recipient of the 2008 Best Paper award at the IEEE Symposium on Signal Processing and Information Technology, for the contribution entitled "Morphological Feature Extraction and Spectral Unmixing of Hyperspectral Images". He has been recognized as a Highly Cited Researchers (Clarivate Analytics) since 2023.

Part C. RELEVANT MERITS

C.1. Publications

Selected JCR Journals:

Z.Wu, H. Su, X. Tao, M. Paoletti, M. Haut, J. Plaza, A. Plaza. **Hyperspectral Anomaly Detection with Relaxed Collaborative Representation**. IEEE Transactions on Geoscience and Remote Sensing, vol. 60, pp. 1-17, Art no. 5533417, 2022[IF(2022)=8.2].

X. Tao, M. Paoletti, L. Han, M. Haut, P. Ren, J. Plaza, A. Plaza. **Fast Orthogonal Projection for Hyperspectral Unmixing**. IEEE Transactions on Geoscience and Remote Sensing, vol. 60, pp. 1-13, Art no. 5523313, 2022[IF(2022)=8.2].

J. M. Haut, M. E. Paoletti, S. Moreno-Alvarez, J. Plaza, Juan A. Rico-Gallego and A. Plaza. **Distributed Deep Learning for Remote Sensing Data Interpretation**. Proceedings of the IEEE, vol.109, no. 8, pp. 1320-1349, 2021 [IF(2021)=14.910].

M. E. Paoletti, J. M. Haut, N. S. Pereira, J. Plaza and A. Plaza. **Ghostnet for Hyperspectral Image Classification**. IEEE Transactions on Geoscience and Remote Sensing, vol. 59, no. 12, pp. 10378-10393, 2021[IF(2021)=8.125].



M. E. Paoletti, J. M. Haut, X. Tao, J. Plaza and A. Plaza. **FLOP-Reduction through Memory Allocations within CNN for Hyperspectral Image Classification**. IEEE Transactions on Geoscience and Remote Sensing, vol. 59, no. 7, pp. 5938-5952, 2021 [IF(2021)=8.125].

N. He, L. Fang, S. Li, J. Plaza and A. Plaza. **Skip-Connected Covariance Network for Remote Sensing Scene Classification**. IEEE Transactions on Neural Networks and Learning Systems, vol. 31, no. 5, pp. 1461-1474, May 2020 [IF(2020)=10.541].

A. Maffei, J. M. Haut, M. E. Paoletti, J. Plaza, L. Bruzzone and A. Plaza. **A Single Model CNN for Hyperspectral Image Denoising**. IEEE Transactions on Geoscience and Remote Sensing, vol. 58, no. 4, pp. 2516-2529, April 2020 [IF(2020)=5.600].

M. E. Paoletti, J. M. Haut, J. Plaza and A. Plaza. **Neural Ordinary Differential Equations for Hyperspectral Image Classification**. IEEE Transactions on Geoscience and Remote Sensing, vol. 58, no. 3, pp. 1718-1734, March 2020 [IF(2020)=5.600].

M. E. Paoletti, J. M. Haut, J. Plaza and A. Plaza. **Deep Learning Classifiers for Hyperspectral Imaging: A Review**. ISPRS Journal of Photogrammetry and Remote Sensing, vol. 158, pp. 279-317, December 2019 [IF(2019)=7.319].

J. M. Haut, R. Fernandez-Beltran, M. E. Paoletti, J. Plaza and A. Plaza. **Remote Sensing Image Super-Resolution Using Deep Residual Channel Attention**. IEEE Transactions on Geoscience and Remote Sensing, vol. 57, no. 11, pp. 9277-9289, November 2019 [IF(2019)=5.855].

M. E. Paoletti, J. M. Haut, R. Fernandez-Beltran, J. Plaza, A. Plaza, J. Li and F. Pla. **Capsule Networks for Hyperspectral Image Classification**. IEEE Transactions on Geoscience and Remote Sensing, vol. 57, no. 4, pp. 2145-2160, April 2019 [IF(2019)=5.855].

N. He, M. E. Paoletti, J. M. Haut, L. Fang, S. Li, A. Plaza and J. Plaza. **Feature Extraction with Multiscale Covariance Maps for Hyperspectral Image Classification**. IEEE Transactions on Geoscience and Remote Sensing, vol. 57, no. 2, pp. 755-769, February 2019 [IF(2019)=5.855].

C.2. Research projects and grants

Title: Tools for Mapping Human Exposure to Risky Environmental Conditions by Means of Ground and Earth Observation Data (EOXPOSURE), European Commission (734541), 4 partners (2 european countries and 2 sudamerican countries), 324.000 Euros, 2017 – 2021, PI in SPAIN: Javier Plaza Miguel, <http://www.h2020-eoxposure.eu>. (Extended until 2023)

Title: Hyperspectral Imaging Network (HYPER-I-NET), European Commission (MRTN-CT-2006-035927), 15 partners from 10 european countries, 2.800.000 Euros, 2007 – 2011, PI: Antonio Plaza Miguel, <http://www.hyperinet.eu>

Title: High Performance Computing Centre (HOST), European Commission, FP7 REGPOT (FP7-REGPOT-CT-2011-284595-HOST), 5 european partners, 2.200.000 Euros, 2012 - 2014 PI: Dana Petcu, <http://host.hpc.uvt.ro/>

Title: Tools for Open Multi-Risk Assessment Using Earth Observation Data (TOLOMEIO) European Commission, Marie Curie Action for International Research Staff Exchange (PIRSES-GA-2009), 4 european partners and 5 sudamerican partners, 483.000 Euros, 2011 – 2014, PI: Paolo Gamba, <http://tolomeiofp7.unipv.it/>

Title: Open European Network for High Performance Computing on Complex Environments



European Commission, European Cooperation in Science and Technology (IC0805), partners from 17 european countries, 60.000 Euros, 2009 – 2011, PI: Emmanuel Jeannot, <http://complexhpc.org/>

Title: Desarrollo de técnicas de APrendizaje profundo para la optimización de la Infraestructura de Supercomputación y de Aplicaciones de imagen hiperespectral (**APRISA**), Ministerio de Economía y Competitividad (PID2019-110315RB-I00), 95.000 euros, 2019 – 2022, PI: Javier Plaza Miguel.

Title: Sistema integral de monitorización multiresolución en agricultura de precisión (SIMMAP): Procesamiento de imágenes (media y baja resolución), Ministerio de Economía y Competitividad (TIN2015-63646-C5-5-R), Universidad de Extremadura y Universidade A Coruña , 84.700 Euros, 2016 - 2018, PI: Antonio Plaza Miguel

Title: Calibración de satélites de observación de la Tierra en España (CEOS-SPAIN), Ministerio de Ciencia e Innovación (AYA2011-29334-C02-02), Universidad de Extremadura y Universidad de Valencia, 120.000 Euros, 2012 – 2014, PI: Antonio Plaza Miguel, <http://ceospain.lpi.uv.es>

Title: Procesamiento eficiente de datos hiperespectrales utilizando arquitecturas de computación paralela, Ministerio de Ciencia e Innovación (AYA2008-05965-C04-02), Universidad de Extremadura, Universidad de Valencia, Universidad Jaume I de Castellón, 98.000 Euros, 2009 – 2011, PI: Antonio Plaza Miguel, <http://www.uv.es/eodix/>

Title: Computación de altas prestaciones aplicada al analisis de datos hiperespectrales, Junta de Extremadura, Dirección General de Universidad y Tecnología (PRI09A110), Universidad de Extremadura, 2009 – 2012, PI: Javier Plaza Miguel.

C.3. Contracts

Title: Tecnologías Integradas para la Explotación Rentable de Recursos Agrarios, Sociedad Cooperativa de Regantes de Extremadura, MeteoEspaña S.L, Universidad de Extremadura, CICYTEX, 30.000 euros, 2014 – 2016.

Title: Tecnologías Integradas para la Explotación Rentable de Recursos Agrarios, Fruticultores de las Vegas Altas, MeteoEspaña S.L, Universidad de Extremadura, CICYTEX, 40.000 euros, 2014 – 2016.

Title: Tecnologías Integradas para la Explotación Rentable de Recursos Agrarios, MeteoEspaña S.L,U., MeteoEspaña S.L , Universidad de Extremadura, CICYTEX, 122.500 euros, 2014 – 2016.

Title: S4i: Software Sensor for Smart Infrastructures, Auditoriza Diagnóstico de Sistemas, Vorsevi Qualitas, Universidad de Extremadura, COMPUTAEX, 16.175 euros, 2014 – 2015.

Title: S4i: Software Sensor for Smart Infrastructures, Obrascón Huarte Laim S.A, Vorsevi Qualitas, Universidad de Extremadura, COMPUTAEX, 29.150 euros, 2014 – 2015.

Title: S4i: Software Sensor for Smart Infrastructures, Set Informática Comunicaciones e Ingeniería S.L, Vorsevi Qualitas, Universidad de Extremadura, COMPUTAEX, 6.300 euros, 2014 – 2015.

Scientific Networks: CAPAP-H y RISC-V