

Part A. Personal Information

DATE	19/06/2018
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Surname(s)	Fernández Lozano	
Forename	Juan Jesús	
Social Security, Passport, ID number	33394376D	
Sex	Male	
Age	45	
Researcher codes	WoS Researcher ID (*)	L-1199-2014
	SCOPUS Author ID(*)	6603920944
	Open Researcher and Contributor ID (ORCID)	0000-0002-8174-1331

(*) At least one of these is mandatory

A.1. Current position

Post/ Professional Category	Profesor Titular de Universidad	
UNESCO Code	331101 Automation Technology	
Key Words	Robotics, Mechatronics, Automation	
Name of the University/Institution	Universidad de Málaga	
	Department/Centre	Ingeniería de Sistemas y Automática
	Full Address	Calle Dr. Ortiz Ramos s/n, 29071 Málaga (Spain)
	Email Address	jfl@uma.es
	Phone Number	951952246
Start date	09/06/2009	

A.2. Education (title, institution, date)

Year	University	Degree	Title
1997	Málaga	First degree (Master-level)	Ingeniero Industrial
2002	Málaga	PhD	Doctor Ingeniero Industrial

A.3. Indicators of Quality in Scientific Production (See the instructions)

Sexenios: 3 (1998-2003, 2004-2009, 2010-2015).

According to Scopus, with 22 indexed documents, the h-index is 8. The total number of citations is 248, with 106 for the Interval 2014-2018. This yields an average of 21 citations per year.

According to ResearcherID, also with 22 publications indexed, the h-index is 4, with an average of 7 citations per article. There are 39 citations between 2014 and 2018, included, yielding an average of 7.8 citations per year.

Google Scholar, over a total of 54 publications, identifies 432 citations, with 177 from 2014, included, which yields an average of 35.4 citations per year. The h-index is 10.

Patents: 11 (7 of them transferred to industry).

Part B. Free Summary of CV (Max. of 3.500 characters, including spaces)

Profesor Titular de Universidad in the Área de Conocimiento de Ingeniería de Sistemas y Automática since 2009. Received the ME-level degree of Ingeniería Industrial from the Universidad de Málaga in 1997, and the PhD in 2002, also from the same University.

His main research works deal with Robotics and Mechatronics applications, from surgical robotics to intelligent vehicles, but particularly mobility and electric, autonomous and connected vehicles. Besides authoring papers in journals and conferences, has filed 11 patents, 7 of them transferred to industry. He has participated as researcher in projects with public and private funding, and as PI he has been responsible for projects at European, national and regional level. He has been Subdirector (Vice-dean, 2004-2012) and Director (Dean, 2012-2017) of the Escuela Técnica Superior de Ingeniería Industrial of the Universidad de Málaga.

Part C. Relevant accomplishments

C.1. Publications

Some relevant publications may be listed as follows:

- Fernandez-Lozano, Juan Jesus, Martín-Guzmán, Miguel, Martín-Ávila, Juan, García-Cerezo, Alfonso. A wireless sensor network for urban traffic characterization and trend monitoring. *Sensors*, 2015. 15: 26143-26169. 8 citations (Scopus).
- Gomez-De Gabriel, Jesus Manuel; Mandow-Andaluz, Antonio; Fernández-Lozano, Juan Jesús; Garcia-Cerezo, Alfonso Jose. 2015. Mobile Robot Lab Project to Introduce Engineering Students to Fault Diagnosis in Mechatronic Systems. *IEEE Transactions on Education* (Volume: 58, Issue: 3, Aug. 2015). 9 citations (Scopus).
- Gómez-de-Gabriel, Jesús M; Mandow, Anthony; Fernández-Lozano, Jesús; García-Cerezo, Alfonso J; "Using LEGO NXT mobile robots with LabVIEW for undergraduate courses on mechatronics", *Education, IEEE Transactions on*, Vol. 54, N.1, pp 41-47, 2011, IEEE. 74 citations (Scopus).
- Melero-Pérez, Agustín; Gao, Wenzhong; Fernández-Lozano, J Jesús; "Fuzzy logic energy management strategy for fuel cell/ultracapacitor/battery hybrid vehicle with multiple-input DC/DC converter", *Vehicle Power and Propulsion Conference, 2009. VPPC'09. IEEE*, pp199-206, 2009, IEEE. 22 citations (Scopus).
- Muñoz, VF; Garcia-Morales, Isabel; Perez del Pulgar, C; Gomez-DeGabriel, JM; Fernandez-Lozano, Jesús; Garcia-Cerezo, Alfonso; Vara-Thorbeck, Carlos; Toscano, R; "Control movement scheme based on manipulability concept for a surgical robotic assistant" *Robotics and Automation, 2006. ICRA 2006. Proceedings 2006 IEEE International Conference on*, pp245-250, 2006, IEEE. 9 citations (Scopus).
- Muñoz-Martínez, VF; Serón-Barba, J; Molina-Mesa, R; Gómez-de-Gabriel, JM; Fernández-Lozano, J; García-Cerezo, A; "Double reflection goniophotometer", *Metrologia*, Vol. 43, N. 3, p 185, 2006, IOP Publishing. 5 citations (Scopus).
- Muñoz, Victor F; Gómez-de-Gabriel, JM; García-Morales, Isabel; Fernández-Lozano, Jesús; Morales, Jesús; "Pivoting motion control for a laparoscopic assistant robot and human clinical trials", *Advanced Robotics*, Vol. 19, N. 6, pp 694-712, 2005, Taylor & Francis. 11 citations (Scopus).

C.2. Research Projects and Grants

Some relevant projects are included in the list below:

Reference: G-GI3000/IDIZ. Title: Sistema Móvil de Información Aplicado a La Movilidad Urbana. Funding body: Agencia de Obra Pública de La Junta De Andalucía. Call for proposals: Consejería de Obra Pública y Vivienda, Junta de Andalucía, 2012. Dates of start-end: 01/2012-11/2015. Funding: 289.454 €. Participation: Principal Investigator.

Reference: S.T. 2 4.1. 6. Title: Power E-Mobility Accelerator. Funding body: European Comision. Call for proposals: Interreg IVC. Dates of start-end: 04/2010-09/2011. Funding: 46.873 €. Participation: Project Manager por la Universidad de Málaga.

Reference: 2012-1-ES1-ERA10-54368. Title: Summer School in Mechatronics (2012). Funding body: Organismo Autónomo de Programas Educativos Europeos. Call for proposals: Erasmus Intensive Programmes. Dates of start-end: 01/09/2012-31/08/2013. Participation: Principal Investigator.

Reference: 806/56.3879. Title: ATICA (All Terrain Intelligent Compact & Autonomous Vehicle). Funding body: CDTI. Call for proposals: FEDER-INNTERCONECTA. Dates of start-end: 07/2012-12/2013. Principal Investigator: Alfonso García Cerezo, Universidad de Málaga. Participation: Researcher.

Reference: DPI-2015-65186-R. Title: Sistema Multi-Robot para Cooperación con Equipos de Rescate de Primera Respuesta Humanos y Caninos en Escenarios de Catástrofe. Funding body: Ministerio de Economía, Industria y Competitividad. Dates of start-end: 01/2016-12/2018. Principal Investigator 1: García Cerezo, Alfonso. Principal Investigator 2: Mandow Andaluz, Antonio. Universidad de Málaga. Participation: Researcher.

Reference: RTC-2016-5712-3. Title: Optimización de la Rentabilidad de Plataformas Híbridas de Energía eólica y de las Olas (ORPHEO). Funding body: Ministerio de Economía y Competitividad. Call for proposals: RETOS COLABORACIÓN. Dates of start-end: 1/4/2017-31/12/2019. Participation: Researcher.

C.3. Contracts

Out of a total of 34, the following list summarizes some of the most relevant contracts:

Title: Realización de trabajos de investigación en el proyecto VICTORIA (Vehicle Initiative Consortium for Transport Operation and Road Inductive Applications), "Desarrollo de un carril para carga de vehículos eléctricos por inducción", a desarrollar en el marco del programa FEDER INNTERCONECTA. Reference: 8.06/5.56.4175 INNTERCON. Empresa: Conservación, Asfalto y Construcción, S.A. Dates of start-end: 01/04/2013-31/12/2014. Funding: 80.000 €. Participation: Principal Investigator.

Title: Realización de trabajos de investigación en el proyecto VICTORIA (Vehicle Initiative Consortium for Transport Operation and Road Inductive Applications), "Desarrollo de un carril para carga de vehículos eléctricos por inducción", a desarrollar en el marco del programa FEDER INNTERCONECTA. Reference: 8.06/5.56.4175 INNTERCON. Empresa: Empresa Malagueña de Transportes, S.A.M. Dates of start-end: 01/04/2013-31/12/2014. Funding: 70.000 €. Participation: Principal Investigator.

Title: INSROCA: Diseño y desarrollo de un robot para inspección de elementos a presión de calderas de recuperación en centrales energéticas. Reference: 56/3712. Empresa: Iberdrola. Dates of start-end: 12/07/2011-12/07/2013. Principal Investigator: Alfonso García Cerezo, Universidad de Málaga. Participation: Researcher.

Title: VEHÍCULO 8X8 CON PROPULSIÓN HÍBRIDA-ELÉCTRICA. Empresa: ITURRI. Reference: 806/56.3318. Dates of start-end: 03/04/2009. Principal Investigator: Alfonso García Cerezo, Universidad de Málaga. Participation: Researcher.

Title: AUTOMATIZACIÓN DE SISTEMAS DE COMUNICACIONES APLICADAS A COMUNICACIONES MÓVILES. Reference: 8.06/56.2156-6. Empresa: Optimi. Dates of start-end: 01/01/2007-30/06/2007. Funding: 250.000 €. Principal Investigator: Alfonso García Cerezo, Universidad de Málaga. Participation: Researcher.

Title: PROYECTO ROBOCA. Reference: 8.06/5.56.3032. Empresa: Iberdrola. Dates of start-end: 25/06/2007-25/06/2009. Funding: 180.000 €. Principal Investigator: Alfonso García Cerezo, Universidad de Málaga. Participation: Researcher.

Title: CONTRATO CON OPTIMI SPAIN SLU PARA LA REALIZACIÓN DEL PROYECTO DE INVESTIGACIÓN, DESARROLLO E INNOVACIÓN "WITLE", EN EL MARCO DE LOS PROGRAMAS DE FINANCIACIÓN DE PROYECTOS DE BASE TECNOLÓGICA DEL CDTI

Reference: 8.06/5.56.2156-10 CDTI. Empresa: Optimi Spain, SLU. Dates of start-end:14/06/2009. Funding: 597.000 €. Principal Investigator: Alfonso García Cerezo, Universidad de Málaga. Participation: Researcher.

Title: CONTRATO CON OPTIMI SPAIN SLU PARA LA REALIZACIÓN DEL PROYECTO DE INVESTIGACIÓN, DESARROLLO E INNOVACIÓN "WITLE", EN EL MARCO DE LOS PROGRAMAS DE FINANCIACIÓN DE PROYECTOS DE BASE TECNOLÓGICA DEL CDTI Reference: 8.06/5.56.2156-10 CDTI. Empresa: Optimi Spain, SLU. Dates of start-end:14/06/2009. Funding: 597.000 €. Principal Investigator: Alfonso García Cerezo, Universidad de Málaga. Participation: Researcher.

C.4. Patents and other IPR

The following list summarizes some of the more relevant patents, our of a total of 11:

Title: TELÉMETRO 3D Y PROCEDIMIENTO DE OBTENCIÓN MEDIANTE CABECEO DE UN TELÉMETRO LÁSER 2D ALREDEDOR DE SU CENTRO ÓPTICO. Inventors: Pequeño-Boter,Alejandro; Morales-Rodriguez, Jesús; Martinez-Rodriguez, Jorge Luis; Garcia-Cerezo, Alfonso Jose; Mandow-Andaluz, Antonio; Fernandez-Lozano, Juan Jesus; Reina-Terol, Antonio Jesus. Application number: PCT/ES2011/000312. Application date: 03/11/2010. Patent number: ES 2381250. Publication date: 21/11/2011. Transferred.

Title: ROBOTIC SYSTEM FOR ASSISTING IN MINIMALLY-INVASIVE SURGERY, WHICH CAN POSITION A SURGICAL INSTRUMENT IN RESPONSE TO ORDERS FROM A SURGEON, IS NOT ATTACHED TO THE OPERATING TABLE AND DOES NOT REQUIRE PRE-CALIBRATION OF THE INSERTION POINT. Inventors: Vara-Thorbeck, Carlos; Garcia-Cerezo, Alfonso Jose; Gomez-De Gabriel, Jesus Manuel; Toscano-,R.; Domínguez-Fernández,Francisco Jesús; Serón-Barba, Javier; García-Morales, Isabel; Pérez Del Pulgar-Mancebo, Carlos Jesús; Fernandez-Lozano, Juan Jesus; Muñoz-Martinez, Victor Fernando. Application date:18/07/2007. Patent number: WO2008021386A1. Publication date: 31/01/2008. Transferred.

Title: SISTEMA ROBÓTICO CON CAPACIDAD TODO-TERRENO Y PLATAFORMA GIRO-ESTABILIZADA PARA COLABORACIÓN CON VEHÍCULOS AÉREOS NO TRIPULADOS. Inventors: Garcia-Cerezo, Alfonso Jose; Martinez-Rodriguez, Jorge Luis; Morales-Rodriguez, Jesús; Mandow-Andaluz, Antonio; Gomez-De Gabriel, Jesus Manuel; Pequeño-Boter,Alejandro; Fernandez-Lozano, Juan Jesus. Application number WO2009074705A1. Application date: 13/12/2008. Publication date: 18/06/2009.

Title: GONIOFOTÓMETRO DE DOBLE REFLEXIÓN. Inventors: CAMPOS ACOSTA, JOAQUÍN; MUÑOZ MARTÍNEZ, VÍCTOR FERNANDO; GÓMEZ DE GABRIEL, JESÚS; GARCÍA CERESO, ALFONSO; SIMÓN MATA, ANTONIO; FERNÁNDEZ LOZANO, JESÚS; GARCÍA VACAS, FRANCISCO;PEDRAZA MORENO, SALVADOR; JIMÉNEZ DEL BARCO JALDO, LUIS MIGUEL; PÉREZ OCÓN, FRANCISCO; SALAS HITA, CARLOS Y RUBIÑO LÓPEZ, MANUEL. Application date: 01/06/2003. Patent number: ES 2 187 384. Fecha de concesión: 14/05/2004. Publication date: 16/06/2004. Transferred.

Title: Sistema de inspección de elementos a presión de calderas de recuperación de centrales de generación eléctrica y método asociado. Inventores (p.o. de firma): FERNÁNDEZ LOZANO, Juan Jesús; MARTÍNEZ DE DIOS, José Ramiro; GARCÍA CERESO, Alfonso José; CASADO ANÍBARRO, Juan Carlos; MARTÍN FERREIRA, Txema; REAL RUBIO, Ignacio; FERNÁNDEZ GARCÍA, Emilio Jesús; POLAINO MARTÍNEZ, José Antonio; FERRÍN POZUELO, Rafael; AGREDANO DE SAN LAUREANO, Daniel y OLLERO BATURONE, Aníbal. Application date: 04/03/2013. Fecha de Concesión: 30/06/2015. Patent number: ES 2491391. Transferred (property of Iberdrola Generación S.A.U.).