

**Part A. PERSONAL INFORMATION**

<b>CVA date</b>	Feb, 2, 2023
-----------------	--------------

Name	José Luis		
Surname	Lázaro Galilea		
Sex (*)	MALE		
Email address	<a href="mailto:josel.lazaro@uah.es">josel.lazaro@uah.es</a>	URL Web	<a href="https://www.uah.es/JLLG">https://www.uah.es/JLLG</a>
Open Researcher and Contributor ID (ORCID) (*)	0000-0001-5048-7134		

**A.1. Current position**

<b>Current position</b>	FULL PROFESSOR	<b>From</b>	15/10/2010
<b>Name of University</b>	UNIVERSIDAD DE ALCALA		
<b>Department</b>	ELECTRONICS DPT.		
<b>UNESCO codes</b>	3307/1203/3311		
<b>Keywords</b>	Indoor localization optical signal based. Electronics for detection systems		

**A.2. Academic Education**

Degree/PhD	University	Year
PhD Telecommunication Eng.	Universidad de Alcalá	1998
Telecommunication Eng.	Universidad Politécnica de Madrid	1992

**Part B. CV SUMMARY**

Dr. J.L. Lázaro has been recognized with **6** research periods (sexenios) including one transfer research period. He is co-author of 69 articles with impact index (JCR), 55 of them in the first quartile (Q1). Additionally, it has published multiple non-indexed articles and more than 150 contributions in congresses (peer-reviewed). Dr. Lázaro is Guarantor of the doctoral program. He has participated in a total of 46 research projects with public funding (5 at European level) all obtained in competitive processes, being main researcher in 19 of them. He has also participated in 41 research contracts with private financing being main researcher in 30 of them and patenting 5 inventions. In addition, it has been main researcher in 14 projects (by agreement) with public funding.

It has supervised 15 PhD thesis: (5 with international mention) Currently, Google Scholar has indexed 221 research contributions with an h-index of 24/ i10-index 58 and a total of 2125 citations, more than 835 in the last 5 years. He is Reviewer for: ANEP, DGI/AEI, CYTED, and reviewer of international journals of: IEEE, ELSEVIER, ASP. AESTED, MDPI. He has completed 13 stays abroad.

Has been teaching at the university for 37 years. Regularly involved in subjects in the Post-Degree Programs. It has obtained a teaching assessment through the DOCENTIA program of "Very Favorable" and "Very Favorable Outstanding". It has recognized 7 quinquennia of teaching activity. It has been co-director of the Master in Automation of Industrial Processes.

Author of 31 teaching books and director of more than 60 TFC and TFM. Director of the Siemens Automation Chair of the UAH. Coordinator of the Teaching Innovation group participating in 8 teaching innovation projects, 4 of them as main researcher. He has presented 10 works in congresses of a teaching nature. He has Visiting Professor Diploma of the University of Oriente.

In relation to management positions: Department Secretary, Head of the Geintra Research Group, Vice-Rector for Students and Promotion, Vice-Rector for Teaching and Students, Vice-Rector for Academic Planning and Teaching Staff, Secretary of the Conference of Rectors of Madrid Universities, Member of the Governing Council, Vice-President of the UAH Senate. Member of the Senate, Member of the Center Board, Chairperson and Member of Governing Council Commissions.

In relation to cooperation and internationalization, he is coordinator of the cooperation group with Latin American universities participant for two decades in university cooperation programs of AECID and responsible for cooperation programs of the UAH and the IELAT Institute. Responsible for exchange programs with the Pascal Institute (CNRS) of Clermont Ferrand.

He is committee chairperson in International Panels of Experts for the Accreditation of Universities of HCÉRES, and also collaborate with Andalusian Knowledge Agency.

**Part C. RELEVANT MERITS (Last 5 years)****C.1. Relevant publications in research indexed journals with "peer review" (some of them):**

- Authors: Bravo-Muñoz, I.; **Lázaro-Galilea**, J.L.; Gardel-Vicente, A.  
 Title: FPGA and SoC Devices Applied to New Trends in Image/Video and Signal Processing Fields. *Journal Electronics* 2017, Vol (6), 25. Mar/2017
- 
- Authors: A. Llana, **J.L. Lázaro**, A. Gardel, D. Rodríguez, I. Bravo, G. Tsirigotis, J. Iglesias  
 Title: "Modeling Infrared Signal Reflections to Characterize Indoor Multipath Propagation"  
 Journal: *Sensors (MDPI)* - ISSN: 1424-8220 Vol 17(4) Apr/2017
- 
- Authors: Bravo, Ignacio and Palomar, Esther and Gardel, Alfredo and **Lázaro, José**  
 Title: Trusted and Secure Wireless Sensor Network Designs and Deployments.  
 Journal *Sensors*, 17 Vol (8). p. 1787 Aug/2017
- 
- Authors: A. Llana, **J.L. Lázaro**, A. Gardel, D. Rodríguez, I. Bravo, G. Tsirigotis, J. Iglesias  
 Title: "Modeling to Effect of Optical Signal Multipath"  
 Journal: *Sensors (MDPI)* - ISSN: 1424-8220 Vol 17(9). Sep/2017
- 
- Authors: D. Rodríguez, **J.L. Lázaro**, A. Llana, I. Bravo, A. Gardel, G. Tsirigotis, J. Iglesias  
 Title: "IPS based on PSD Detector, Precise Positioning of Agents in Motion using AoA"  
 Journal: *Sensors (MDPI)* - ISSN: 1424-8220 Vol 17(9) Sep/2017
- 
- Authors: A. Llana, **J.L. Lázaro**, A. Gardel, D. Rodríguez, I. Bravo, F. Espinosa  
 Title: "Characterization Multipath Effects in IPS by AoA and PoA Based on Optical Signals"  
 Journal: *Sensors (MDPI)* - ISSN: 1424-8220 Vol 19(4). Feb/2019
- 
- Authors: J Berrián, I Bravo, A Gardel, **JL Lázaro**, S Hernández  
 Title: A Wearable Closed-Loop Insulin Delivery System Based on Low-Power SoCs  
 Journal: *Electronics* 2019, Vol 8 (6), 612 May/2019
- 
- Authors: A. Llana, **J.L. Lázaro**, A. Gardel, D. Rodríguez, B. Rubiano, I. Bravo  
 Title: Analysis of Multiple-Access Discrimination Tech. for the Development of PSD-based VLP System"  
 Journal: *Sensors (MDPI)* - ISSN: 1424-8220 Vol 20(6) Mar/2020
- 
- Authors: B Rubiano-Muriel, **JL Lázaro-Galilea**, A Gardel-Vicente, Á De-La-Llana-Calvo, , I Bravo-Muñoz  
 Title: Development of an Optical Signal-Based IPS from an MCU-SoC  
 Journal *Electronics* Vol 9 (5), 782 May/2020
- 
- Authors: A. Llana, D. Salido, **J.L. Lázaro**, A. Gardel, I. Bravo, B. Rubiano  
 Title: "Accuracy and Precision Assessment of AoA-based Indoor Positioning Systems using Infrastructure Lighting and a Position Sensitive Detector"  
 Journal: *Sensors (MDPI)* Vol 20(18) Mar/2020
- 
- Authors: Bravo-Muñoz, I.; Gardel-Vicente, A.; **Lázaro-Galilea**, **J.L.**  
 Title: New Applications and Architectures Based on FPGA/SoC.  
 Journal *Electronics*, Vol 9 (11), 1789. Oct/2020
- 
- Authors: Rodríguez-Sánchez, M.C.; Fernández-Jiménez, L.; Jiménez, A.R.; Vaquero, J.; Borromeo, S.; **Lázaro-Galilea**, **J.L.**  
 Title: HelpResponder—System for the Security of First Responder Interventions.  
 Journal *Sensors* 2021, 21, 2614. Vol 21(11) Jun/2021
- 
- Authors: Álvaro de la Llana Calvo; **José Luis Lázaro Galilea**; Alfredo Gardel Vicente; David Salido Monzú; Ignacio Bravo Muñoz; Andreea Iamnitchi; Rubén Gil Vera  
 Title: Weak Calibration of a Visible Light Positioning System Based on a Position-Sensitive Detector: Positioning Error Assessment.  
 Journal *Sensors* **2021**, 21(11), 3924; doi.org/10.3390/s21113924
- 
- Authors: J. Berrián, I. Bravo, A. Gardel, **J.L. Lázaro**, M. Rigla  
 Title: "Dynamic Insulin Basal Needs Estimation and Parameters Adjustment for Closed-Loop Control in Type 1 Diabetes"  
 Journal: *Sensors (MDPI)* - ISSN: 1424-8220 Vol 21(15) Aug/2021
- 
- Authors: ÁDe-La-Llana, J.L. Lázaro, A. Alcázar, A. Gardel, I Bravo, and A. Iamnitchi  
 Title: "Accuracy and Precision of Agents Orientation in an Indoor Positioning System Using Multiple Infrastructure Lighting Spotlights and a PSD Sensor"  
 Journal: *Sensors* 22, no. 8: 2882. <https://doi.org/10.3390/s22082882>

### **C.3. Research projects (Last 5 years)**

**Project Name: (NAC):** "Research Platform on Prevention, Security and Evacuation Services In-doors",  
 Funding Entity: Ministerio Ciencia e Innovación TED2021-131430B-I00.

Duration, From: 01/12/2022 to: 30/11/2024. Funding Amount: 176.870 €.

Entidades participantes: URJC, UAH, UPM ...

Main Researchers: Cristina Rodríguez, Micael Gallego.

---

**Project Name (REG):** "Plataforma de Investigación para el apoyo, guiado y monitorización de servicios destinados a la prevención, control de riesgos, seguridad y evacuación en interiores"

Funding Entity: "Young Researchers" de la Comunidad de Madrid. Programa Young Researchers"

Duration, From: 01/01/2020 to: 31/12/2021 unding Amount: 30.505 €.

Main Researchers: Cristina Rodríguez.

---

**(EU → Europeo, NAC → Nacional, REG → Regional)**

**Project Name: (EU):** Enhancing Skills Intel. And Integration Into Existing Phd Programmes By Providing Transferable Skills Training Through An Open Online Platform Funding Entity:UE H2020 SwafS-2019-1.

Duration, From: 01/01/2020 to: 31/12/2022 Funding Amount: 44.410 € (Total: 990 558,16 €)

Main Researchers: A. Gardel / I. Bravo

---

**Project Name: (EU):** "PALAEMON A holistic passenger ship evacuation-rescue ecosystem "

Funding Entity: UE H2020 RIA. UAH Funding Amount: € 152.000 € (Total: 1 M €)

Duration, From: 01/06/2019 to: 31/05/2022

Main Researchers: A. Gardel / I. Bravo

---

**Project Name: (EU):** "Promoting Internationalization of Research Through Establishment And Operationalization of Cycle 3 Quality Assurance System In Line With to European Integration" C3QA

Funding Entity: European Commission Erasmus+: Higher Education - International Capacity Building

Duration, From: 01/12/2016 to: 30/11/2019 Amount: UAH: 44.008 € (total 888.433,33 €)

Main Researcher at UAH: A. Gardel

---

**Project Name: (EU):** "European PhD Hub" PHDHUB Funding Entity: Erasmus+ Erasmus+ KA2

Funding Amount: UAH: 102.942 € (total 255.485 €)

Duration, From: 01/09/2017 to: 31/08/2021

Main Researcher at UAH: I. Bravo

---

**Project Name (REG)** Indoor Guidance and Location System Using Building Illumination

Funding Entity: Junta de Comunidades de Castilla-La Mancha SBPLY/19/180501/000049

Duration, From: 01/01/2020 to: 31/03/2023 Amount: 91.943,00 €

Main Researcher: **José Luis Lázaro** /Alfredo Gardel

---

**Project Name: (REG)** Rapid virological diagnosis of Sars-Cov-2 using optoelectronic processes.

Funding Entity: UAH Ref: COVID-19 UAH 2019/00003/016/001/012

Duration, From: 01 /06/2020 to 31/12/2020

Participating Entities: Electronic Dept. - UAH

Amount: 6.900,00 €

Main Researcher: **José Luis Lázaro**

---

**Project Name: (REG)** Event-based location and estimation support system for prevention, evacuation and intervention in emergency situations.

Funding Entity: UAH 2018/00231/001

Duration, From: 09/06/2018 to: 08/06/2019

Participating Entities: Electronic Dept. - UAH

Amount: 6.000,00 €

Main Researcher: **José Luis Lázaro**

---

**Project Name: (REG)** Smart-lighting system with security and surv. capabilities, an alternative for smart-cities

Funding Entity: CEISEP Program. Campus of Intern. Excellence URJC-UAH Ref: 2016/CEISEP-001

Duration, From: 01-12-2016 to: 31-12-2017

Participating Entities: Universidad de Alcalá, Universidad Rey Juan Carlos Amount: 51.720,00 €

Main Researcher (Coordinator): **José Luis Lázaro**

---

**Project Name: (NAC)** Red de posicionamiento y navegación en interiores y exteriores delimitados

Funding Entity: MINECO REDES DE EXCELENCIA Ref. TEC2017-90808-REDT

Duration, From: 01-07-2018 to: 30-06-2021 Amount: 220.000,00 €

Participating Entities: UAH, CSIC, UOC, UJI, UGR, UEx, GRADIANT, Deusto Tech, UAB, UM

Main Researcher (Coordinator): **José Luis Lázaro**

---

**Project Name: (NAC)** Red de posicionamiento y navegación en interiores  
Funding Entity: MINECO REDES DE EXCELENCIA Ref. (TEC2015-71426-REDT)  
Duration, From: 01-2016 to: 12-2017 Amount: 30.000,00 €  
Participating Entities: UAH, CSIC, UEx, UD, UOC, UGr, UJI, GRADIANT  
Main Researcher (Coordinator): **José Luis Lázaro**

---

**Project Name: (NAC)** Optimization of Wireless Sensor Network and Control Systems Network for Cooperation of Mobile Units in Intelligent Environments. ALCOR.  
Funding Entity: MINECO DPI 2013-47347-C2-1-R  
Duration: From 01/01/2014 to: 12/31/2017 Amount: € 145.200,00 €  
Main Researchers: **José Luis Lázaro** F. Espinosa

---

**Project Name: (NAC)** Training for electronic product development and prototyping  
Funding Entity: MINECO (PEJ-2014-A-38020)  
Duration, From: 01-09-2019 to: 31-08-2021 Amount: 98.532,00 €  
Main Researcher **José Luis Lázaro Galilea**

---

**Project Name: (NAC)** Training for electronic product development and prototyping  
Funding Entity: MINECO (PEJ-2018-004019)  
Participating Entities: Universidad de Alcalá  
Duration, From: 01-09-2019 to: 31-08-2021 Amount: 42.660,00 €  
Investigador responsable: **José Luis Lázaro**

---

**Project Name:** "Design of an Efficient Hardware Architecture for the Acquisition and Processing of Ultrasonic Images of High Definition In Real Time (Sarus)"  
Funding Entity: Cam-UAH. Participating Entities: UAH. Amount: € 40,550  
Duration, From: 01/01/2020 to: 31/12/2021  
Main Researcher: C.J. Martín

---

**Project Name:** "GUIA project"  
Funding Entity: JCCM. Participating Entities: UAH, Parque Científico-Tecnológico Guadalajara.  
Duration, From: 01/01/2020 to: 31/12/2022 Amount: € 91,950  
Main Researchers: JL. Lázaro, **A. Gardel**

---

#### **C.4. Participation in knowledge transfer activities - exploitation of results (Some of the Last 5 years)**

**Título:** Sistema de transmisión y recepción de señales para procesos de inhibición en base a FPGAs (INHIBIDRON2) Empresa: INDRA Sistemas S.A. Entidades participantes: Universidad de Alcalá  
Duración, desde: 30/09/2018 hasta: 11/07/2019 Cuantía: 51.485 €

**Título:** Generador de señales de inhibición mediante FPGAs. (INHIBIDRON) Empresa: INDRA Sistemas S.A. Entidades participantes: Universidad de Alcalá Duración, desde: 12/04/2018 hasta: 30/09/2018  
Cuantía: 15.300 €

**Título:** " Migración FW VIRTEX-SPARTAN CH53" Empresa: INDRA Sistemas S.A. Entidades participantes: Universidad de Alcalá Duración, desde: 30/04/2018 hasta: 30/09/2018 Cuantía:19.360€

**Título** Bloque de firmware de análisis de onda continua para el programa F110 Empresa INDRA Sistemas S.A. Entidades participantes: Universidad de Alcalá Duración, desde: 21/09/2018 hasta: 20/12/2018  
Cuantía: 26.434 Euros

**Título** Sistemas de control y monitorización de un edificio para su optimización energética Empresa ADVANTIC Sistemas y Servicios S.L. Duración, 10/10/2016 hasta: 09/12/2016 Cuantía:30.25 €

**Título** Desarrollo e implementación de una solución Fog-Cloud para la optimización energética de edificios de uso público Empresa ADVANTIC Sistemas y Servicios S.L. Duración,01/02/2017 hasta: 31/12/2017 Cuantía: 18.150 Euros