

## Research projects

### Research Projects

2021

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**Project Title:** *Machine Learning and Big Data Multi-Omic Approach: Personalized Medicine*

**Code:** PI20/00711

**Project Scope:** National

**Funding Program:** Health Research Projects. Strategic Action in Health 2017-2020

**Financing Entity:** Ministry of Science and Innovation. Carlos III Health Institute

**Project Leader:** Jesús Alcalá

**Start Date:** 01/01/2021

**End Date:** 31/12/2023

2020

**Setting the Ground for a Multi-Level Approach on Developing Soft Skills in Higher Education**

**Code:** 2020-1-CY01-KA203-065985

**Project Scope:** European

**Funding Program:** Erasmus+

**Financing Entity:** European Commission

**Project Leader:** [Not specified]

**Start Date:** 01/12/2020

**End Date:** 30/09/2023

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**Functional Quality of Digital Models of Terrain Elevations in Engineering**

**Code:** PID2019-106195RB-I00

**Project Scope:** National

**Funding Program:** "R&D Challenges" Research Projects Call, State Program for Scientific and Technological Research 2017-2020

**Financing Entity:** Ministry of Science, Innovation, and Universities

**Start Date:** 01/06/2020

**End Date:** 31/05/2023

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**Virtual Reality and Real Virtuality: A Proposal for Research and Dissemination of Archaeological and Paleontological Heritage from ORCE**

**Code:** A-HUM-016-UGR18

**Project Scope:** Regional (Andalusia)

**Funding Program:** FEDER Operational Program 2014-2020 (Resolution of March 23, 2018)

**Financing Entity:** Government of Andalusia

**Start Date:** 01/01/2020

**End Date:** 31/12/2022

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### **Platform for the Comprehensive Management of Information on Iberian Vessels for Research, Teaching, and Dissemination**

**Code:** IEG\_UJA\_70AE

**Project Scope:** [Not specified]

**Funding Program:** Research Projects Call aimed at individuals, Universities, and Research Centers in the field of "Humanities and Artistic Expression"

**Financing Entity:** Institute of Giennese Studies - Provincial Council of Jaén

**Start Date:** 23/10/2020

**End Date:** 22/10/2021

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### **Clinical Applications of Modeling Brain Activity Complexity Based on Electroencephalogram: Default Network and Consciousness**

**Code:** PID2019-105145RB-I00

**Project Scope:** [Not specified]

**Funding Program:** 2019 Call for "R&D&i Projects" under the State Programs for Knowledge Generation and Scientific and Technological Strengthening of the R&D&i System and R&D&i for Societal Challenges, State Plan for Scientific and Technical Research and Innovation 2017-2020

**Financing Entity:** Ministry of Science, Innovation, and Universities

**Start Date:** 01/06/2020

**End Date:** 31/05/2023

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### **Geographic Information Capture Using Low-Cost Redundant Mobile Sensors. Application to Intelligent Territory Management**

**Code:** UJA

**Project Scope:** Regional (Andalusia)

**Funding Program:** Andalusia FEDER Operational Program 2014-2020

**Financing Entity:** University of Jaén

**Start Date:** 01/01/2020

**End Date:** 31/12/2021

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### **Evaluation Models of the Railway Emergency Plan Considering the Prioritization and Synergy of Action Alternatives**

**Identity Code:** 71971182  
**Financing Entity:** National Natural Science Foundation of China  
**Co-Principal Investigator:** Luis Martínez López  
**Duration:** January 2020 - December 2023

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### **Towards Intelligent, Explainable, and Accurate Knowledge Extraction in Complex Problems**

**Code:** PID2019-107793GB-I00  
**Project Scope:** National  
**Funding Program:** Ministry of Science and Innovation  
**Project Leaders:** María José Del Jesus-Díaz, Antonio Jesús Rivera-Rivas  
**Start Date:** 01/06/2020  
**End Date:** 01/06/2023

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### **Explainability of Artificial Intelligence for Intelligent Data Analysis: Applications in Health and IoT Problems**

**Code:** P18-RT-2248  
**Project Scope:** Regional (Andalusia)  
**Funding Program:** R&D&I Projects, FEDER 2014-2020 Operational Program, Andalusian Research, Development, and Innovation Plan (PAIDI) 2020  
**Financing Entity:** Andalusian Knowledge Agency, Ministry of Economy, Knowledge, Companies, and University, Government of Andalusia  
**Project Leader:** Jesús Alcalá  
**Start Date:** 01/01/2020  
**End Date:** 31/12/2022

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### **Advanced Charging for Electric Cars: Wireless and Coordinated Control for Realistic V2G Operations**

**Code:** PID2019-110531RA-I00  
**Project Scope:** National  
**Funding Program:** CHALLENGES 2019  
**Financing Entity:** Ministry of Science and Innovation  
**Project Leader:** [Not specified]  
**Start Date:** 01/06/2020  
**End Date:** 01/06/2023

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### **Signal Processing Techniques Applied to the Separation, Detection, and Classification of Cardiopulmonary and/or Pulmonary Sounds**

**Financing Entity:** FEDER - Government of Andalusia - University of Jaén  
**Project Reference:** 1257914  
**Project Type:** Regional  
**Participating Entities:** University of Jaén

**Duration:** 2 years  
**Execution Period:** January 2020 - December 2021  
**Principal Investigator:** Francisco Jesús Cañadas Quesada  
**Number of Participating Researchers:** 13  
**Research Line:** Biomedical Signal Analysis

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### **Research and Development of Signal Processing Algorithms to Improve Medical Diagnosis Reliability Through Auscultation Signals**

**Financing Entity:** Ministry of Economy, Knowledge, and Universities, Government of Andalusia  
**Project Reference:** P18-RT-1994  
**Project Type:** Regional  
**Participating Entities:** University of Jaén  
**Duration:** 3 years  
**Execution Period:** January 2020 - December 2022  
**Principal Investigator:** Francisco Jesús Cañadas Quesada  
**Number of Participating Researchers:** 13  
**Research Line:** Biomedical Signal Analysis

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### **Optimization of Energy Sustainability in Cloud Computing Centers Using Expert Planning with Interpretability Analysis**

**Financing Entity:** Ministry of Economy, Knowledge, and Universities, Government of Andalusia  
**Project Reference:** P18-RT-4046  
**Project Type:** Regional  
**Participating Entities:** University of Jaén  
**Duration:** 3 years  
**Execution Period:** January 2020 - December 2022  
**Principal Investigator:** Sebastián García Galán  
**Number of Participating Researchers:** 6  
**Research Line:** Artificial Intelligence Applied to Engineering

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### **Intelligent Estimation of Risk Levels for Severe Arrhythmias Caused by the Combination of Drugs Indicated for COVID-19**

**Financing Entity:** Ministry of Economy, Knowledge, and Universities, Government of Andalusia  
**Project Reference:** CV-20-84873  
**Project Type:** Regional  
**Participating Entities:** University of Jaén  
**Duration:** 1 year  
**Execution Period:** November 2020 - November 2021  
**Principal Investigator:** Sebastián García Galán  
**Number of Participating Researchers:** 12  
**Research Line:** Artificial Intelligence Applied to Engineering / Biomedical Signal Analysis

**2019**

**PLN.NET: Network for the Promotion of Natural Language Processing Technologies**

**Code:** TIN2016-81739-REDT

**Project Scope:** [Not specified]

**Funding Program:** Research Network Promotion Actions

**Financing Entity:** Ministry of Economy, Industry, and Competitiveness

**Project Leader:** [Not specified]

**Start Date:** 01/11/2019

**End Date:** [Not specified]

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**Support for the Initiation of Knowledge Transfer and Innovation Instrumentalized Through Our Students**

**Code:** 2019/00044/001

**Project Scope:** Regional (Andalusia)

**Funding Program:** Promotion of R&D&I Activity

**Financing Entity:** University of Jaén

**Project Leader:** Rafael Jesús Segura-Sánchez

**Start Date:** 16/03/2019

**End Date:** 15/07/2020

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**Human Language Technologies for Living Digital Entities (LIVING-LANG)**

**Code:** [Not specified]

**Project Scope:** National

**Funding Program:** National Plan, State Program for R&D&I Oriented to Societal Challenges

**Financing Entity:** Ministry of Science, Innovation, and Universities

**Project Leader:** Alfonso Ureña-López

**Start Date:** 01/01/2019

**End Date:** 31/12/2021

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**Human Language Technologies for Living Digital Entities (LIVING-LANG)**

**Code:** RTI2018-094653-B-C21

**Project Scope:** National

**Funding Program:** National Plan, State Program for R&D&I Oriented to Societal Challenges

**Financing Entity:** Ministry of Science, Innovation, and Universities

**Project Leader:** Alfonso Ureña-López

**Start Date:** 01/01/2019

**End Date:** 31/12/2021

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## **TIC Equipment Plan for Promoting Activities in the Research Field of the Involved Groups**

**Code:** Project Reference: EQC2018-004716-P

**Project Scope:** National

**Funding Program:** Acquisition of Scientific and Technical Equipment under the State Program for Research Infrastructure and Scientific and Technical Equipment (State Plan for R&D&I 2017-2020)

**Financing Entity:** Ministry of Science, Innovation, and Universities - FEDER

**Project Leaders:** Francisco Ramón Feito-Higueruela, Alfonso Ureña-López

**Start Date:** 01/01/2019

**End Date:** 31/12/2020

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## **Integration of Vulnerable Groups through the University of Ngozi, Burundi**

**Code:** BOP 122, June 27, 2018

**Project Scope:** International

**Funding Program:** Provincial Fund for Solidarity and Development Aid for Cooperation and Development Projects. 2018

**Financing Entity:** Provincial Council of Jaén

**Start Date:** 01/01/2019

**End Date:** 31/12/2019

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## **Intelligent Decision Making Under Uncertainty. New Approaches for Versatile Applications**

**Identity Code:** PGC2018-099402-B-I00

**Financing Entity:** Ministry of Economy and Competitiveness

**Project Leaders:** Luis Martínez López, Rosa M<sup>a</sup> Rodríguez Domínguez

**Start Date:** January 2019

**End Date:** December 2021

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## **Strategies for Large-Scale Processing and Segmentation of Large Point Clouds. Applications (SPS-LIDAR)**

**Code:** RTI2018-099638-B-I00

**Project Scope:** National

**Funding Program:** 2018 R&D&I Projects Call - Research Challenges 2018

**Financing Entity:** Ministry of Science, Innovation, and Universities

**Start Date:** 01/01/2019

**End Date:** 31/12/2021

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## **TIC Equipment Plan for Promoting Activities in the Research Field of the Involved Groups**

**Code:** Project Reference: EQC2018-004716-P

**Project Scope:** National

**Funding Program:** Acquisition of Scientific and Technical Equipment under the State Program for Research

Infrastructure and Scientific and Technical Equipment (State Plan for R&D&I 2017-2020)

**Financing Entity:** Ministry of Science, Innovation, and Universities - FEDER

**Project Leaders:** Francisco Ramón Feito-Higueruela, Alfonso Ureña-López

**Start Date:** 01/01/2019

**End Date:** 31/12/2020

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### **New Methodologies for the Exploration, Study, and Monitoring of Cavities in the Province of Jaén**

**Project Scope:** Regional (Andalusia)

**Funding Program:** Research Projects from the Institute of Giennese Studies

**Financing Entity:** Institute of Giennese Studies

**Start Date:** 01/01/2019

**End Date:** 26/10/2019

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### **Pharaon Project "Pilots for Healthy and Active Ageing"**

**Code:** 857188 2020

**Funding Program:** European Commission - H2020 - EU.1.3.3. - Smart and Healthy Living at Home

**Financing Entity:** European Commission

**Project Leader:** Macarena Espinilla Estévez

**Start Date:** 01/12/2019

**End Date:** 30/11/2022

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### **RTI2018-098979-A-I00: Intelligent Decision System Based on Activity Recognition in the Operational Environment of Aging**

**Funding Program:** State Program for R&D&I Oriented to Societal Challenges

**Financing Entity:** Ministry of Science, State Research Agency, Ministry of Science, Innovation, and Universities

**Project Leader:** Macarena Espinilla Estévez

**Start Date:** 01/01/2019

**End Date:** 31/12/2021

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### **2019/CL075: Test Benches for Evaluating Social Awareness in Assistive Robotics**

**Funding Program:** Research Challenges 2018

**Financing Entity:** MICINN

**Start Date:** 01/01/2019

**End Date:** 31/12/2021

**Total Amount:** €47,738.00

**Status:** Active

**2018**

**Collaborative Research Contract for Activities Carried Out Under Framework Partnership Agreement  
GSA/GRANT/04/2016**

- **Code:** GSA/GRANT/04/2016/SG1 WFID: 241479 (EUROPEAN GNSS AGENCY)
- **Project Scope:** International
- **Funding Program:** GSA/GRANT/04/2016
- **Financing Entity:** Galileo Support Agency
- **Start Date:** 21/12/2018
- **End Date:** 30/09/2019

**Proposal for the Adoption of Methodologies and Procedures Used for Evaluating Geographic Information  
Quality for the Member States of the IPGH**

- **Code:** IPGH 2010-2020
- **Project Scope:** International
- **Funding Program:** Pan American Technical Assistance Projects 2018 IPGH 2010-2020 Agenda
- **Financing Entity:** Pan American Institute of Geography and History
- **Responsible:** Edison Rojas (University of the Republic, Uruguay)
- **Start Date:** 08/01/2018
- **End Date:** 28/12/2018
- **Responsible:** Jorge Rosas-Berton

**Mobility Stays for Senior Professors and Researchers in Foreign Institutions, Including the Salvador de  
Madariaga Program. 2017 Call**

- **Code:** PRX17/00145
- **Project Scope:** National
- **Funding Program:** STATE PLAN FOR SCIENTIFIC RESEARCH, TECHNOLOGY AND INNOVATION. Modality A: Madariaga\_2017
- **Financing Entity:** Ministry of Education, Culture and Sports
- **Responsible:** M<sup>a</sup> Teresa Martín-Valdivia
- **Start Date:** 01/06/2018
- **End Date:** 31/08/2018

#### **Integration of Vulnerable Groups Through the University of Ngozi, Burundi**

- **Code:** BOP 122, 27 June 2018
- **Project Scope:** International
- **Funding Program:** Provincial Fund for Solidarity and Development Aid, for Cooperation and Development Aid Projects
- **Financing Entity:** Provincial Council of Jaén
- **Responsible:** Pilar Belart-Rodríguez
- **Start Date:** 01/01/2018
- **End Date:** 01/01/2020

#### **Raising Awareness About Burundi: The Heart of Africa**

- **Code:** BOP 126, 3 July 2018

- **Project Scope:** Regional
- **Funding Program:** 2018 Budget Application 2018.110.2310.480.05 of the Provincial Council of Jaén's Expenditure Budget
- **Financing Entity:** Provincial Council of Jaén
- **Responsible:** Pilar Belart-Rodríguez
- **Start Date:** 01/01/2018
- **End Date:** 31/12/2018

**Grants for Short Stays of Research Staff in Training for Obtaining the Doctorate Degree with International Mention at Purdue University (United States)**

- **Code:** Acción 5/2017\_06180570EI IFS 644
- **Project Scope:** Regional
- **Funding Program:** R&D+i Support Plan of the University of Jaén. Action 5/2017
- **Financing Entity:** University of Jaén
- **Responsible:** Alejandro Graciano-Segura
- **Start Date:** 15/03/2018
- **End Date:** 30/06/2018

**Financial Support for Health Costs During Stay at Purdue University West Lafayette (United States)**

- **Code:** Acción 5 Bis/2017\_06180570EI IFS 644
- **Project Scope:** Regional

- **Funding Program:** R&D+i Support Plan of the University of Jaén. Action 5 Bis/2017
- **Financing Entity:** University of Jaén
- **Responsible:** Alejandro Graciano-Segura
- **Start Date:** 15/03/2018
- **End Date:** 30/06/2018

**Grants for Visits by Research Staff from Other Institutions to the University of Jaén: Visit of Mr. Mario Parra Rodríguez from Heriot-Watt University, Psychology, Edinburgh (Scotland)**

- **Code:** Acción 2/2017\_06.18.05.70. EI IFS 644
- **Project Scope:** Regional
- **Funding Program:** R&D+i Support Plan of the University of Jaén. Action 2/2017
- **Financing Entity:** University of Jaén
- **Responsible:** Francisco Ramon Feito-Higueruela
- **Start Date:** 04/02/2018
- **End Date:** 07/02/2018

**Graphics Computing Tools for Managing 3D and 4D Data. Applying VR & AR Techniques to Urban Infrastructure and Archaeology**

- **Code:** TIN2017-84968-R
- **Project Scope:** National
- **Funding Program:** State R&D+i Program Oriented to Societal Challenges

- **Financing Entity:** Ministry of Science and Innovation
- **Start Date:** 01/01/2018
- **End Date:** (Ongoing)

### **Graphics Computing Tools for Managing 3D and 4D Data. Applying VR & AR Techniques to Urban Infrastructure and Archaeology**

- **Code:** TIN2017-84968-R
- **Project Scope:** National
- **Funding Program:** NATIONAL R&D+i PLAN. MINECO\_Challenges\_2017
- **Financing Entity:** Ministry of Economy and Competitiveness
- **Responsible:** Francisco Ramon Feito-Higueruela, Lidia Ortega-Alvarado
- **Start Date:** 01/01/2018
- **End Date:** 31/12/2021

### **Digital Transformation and the Free Practice of the Profession as a Path to Self-Employment**

- **Code:** 01
- **Project Scope:**
- **Funding Program:** Entrepreneurial Culture Promotion Projects
- **Financing Entity:** University of Jaén
- **Responsible:**

- **Start Date:** 06/02/2018
- **End Date:** 18/05/2018

#### **TIN2015-65686-C5-2-R Audio-Visual Interactions for Social Robots in Smart Homes (III)**

- **Funding Program:** State Program for Research, Development, and Innovation Oriented to Societal Challenges
- **Financing Entity:** Ministry of Economy and Competitiveness
- **Start Date:** 01/01/2018
- **End Date:** 31/12/2018

## **2017**

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#### **Asistencia al OLEA R&D Project Networking Event (Bruselas 29 de Junio 2017)**

- Code: Acción 8\_2017\_2017/00723/001
- Project scope: Autonómica
- Funding program: PLAN DE APOYO A LA I+D+I DE LA UNIVERSIDAD DE JAÉN. Acción 8\_2017
- Financing entity: Universidad de JAEN
- Responsable: Martín-Valdivia, M<sup>a</sup> Teresa
- Start date: 28/06/2017
- End date: 30/06/2017

#### **Estancia en la Vrije Universiteit Amsterdam**

- Code: EST16/00529
- Project scope: Nacional
- Funding program: PLAN ESTATAL DE INVESTIGACIÓN CIENTÍFICA.TÉCNICA Y DE INNOVACIÓN (2016). Subprograma Estatal de Movilidad. MECD
- Financing entity: MINISTERIO DE EDUCACION, CULTURA Y DEPORTE
- Responsable: Jiménez-Zafra, Salud María
- Start date: 01/06/2017
- End date: 31/07/2017

## **Primeras ocupaciones humanas y contexto paleoecológico a partir de los depósitos plioleístocenos de la cuenca Guadix-Baza. Zona arqueológica de la cuenca de Orce (Granada, España)**

- Code: B120489SV18BC
- Project scope: Autonómica
- Funding program: Proyecto General de Investigación (2017)
- Financing entity: Consejería de Cultura, Junta de Andalucía
- Start date: 01/05/2017
- End date: 30/04/2021

## **Empoderamiento de la Universidad de Ngozi, Motor de Cambio en la Región de Ngozi**

- Code: BOP 118, de 22 de junio de 2017
- Project scope: Internacional
- Funding program: Fondo Provincial para la Solidaridad y la Ayuda al Desarrollo, para Proyectos de Cooperación y Ayuda al Desarrollo. Ejercicio 2017
- Financing entity: Diputación Provincial de Jaén
- Responsable: Belart-Rodríguez, Pilar
- Start date: 01/01/2017
- End date: 31/12/2018

## **Asistencia técnica para el seguimiento, evaluación y revisión del Plan Estratégico de la Universidad de Ngozi (Burundi)**

- Code: Resolución del Vicerrectorado de Proyección de la Cultura, Deportes y Responsabilidad Social, de 9 de diciembre de 2016. Universidad de Jaén
- Project scope: Internacional
- Funding program: Universidad de Jaén
- Financing entity: Universidad de Jaén
- Responsable: Ariza-López, Francisco Javier
- Start date: 01/01/2017
- End date: 29/06/2018

## **Adescándonos a Burundi, el país más triste del mundo**

- Code: BOP 132 del 12 de julio 2017
- Project scope: Autonómica
- Funding program: Aplicación Presupuestaria 2017.110.2310.480.05 del presupuesto de gastos de la Diputación Provincial de Jaén
- Financing entity: Diputación Provincial de Jaén
- Responsable: Belart-Rodríguez, Pilar
- Start date: 01/01/2017
- End date: 31/12/2017

## **Mejora de la fertilidad y la calidad de los suelos a partir de recursos naturales locales (zona de Ngozi, Burundi)**

- Code: Resolución del Vicerrectorado de Proyección de la Cultura, Deportes y Responsabilidad Social, de 9 de diciembre de 2016. Universidad de Jaén
- Project scope: Internacional
- Funding program: Ayudas propias de la Universidad de Jaén para la Cooperación Internacional y Educación para el Desarrollo
- Financing entity: Universidad de Jaén
- Start date: 01/01/2017
- End date: 31/12/2017

#### **APOYO A LAS ESTRUCTURAS DE INVESTIGACIÓN. ACCIÓN 1 PAIUJA 2017 2018: TIC209**

- Code: Acción 1\_2017\_TIC209\_2017
- Project scope: Autonómica
- Funding program: PLAN DE APOYO A LA I+D+I DE LA UNIVERSIDAD DE JAÉN. Acción 1\_2017
- Financing entity: Universidad de JAEN
- Responsable: Ureña-López, L. Alfonso
- Start date: 01/01/2017
- End date: 31/12/2018

#### **Ayudas para contratos Torres Quevedo (PTQ) 2016**

- Code: PTQ-16-08419
- Project scope: Nacional
- Funding program: Programa Estatal de Promoción del Talento y su Empleabilidad
- Financing entity: : Ministerio de Economía, Industria y Competitividad
- Start date: 01/11/2017
- End date:

#### **Ayudas a grupos o equipos de investigación para la preparación y presentación de proyectos colaborativos**

- Code: 2017/00421/001
- Funding program: Fomento Actividad I+D+i
- Financing entity: Universidad de Jaén
- Responsable: Segura-Sánchez, Rafael Jesús
- Start date: 19/07/2017
- End date: 31/03/2018

#### **APOYO A LAS ESTRUCTURAS DE INVESTIGACIÓN. ACCIÓN 1 PAIUJA 2017 2018: TIC144**

- Code: Acción 1\_2017\_TIC144\_2017
- Project scope: Autonómica
- Funding program: PLAN DE APOYO A LA I+D+I DE LA UNIVERSIDAD DE JAÉN. Acción 1\_2017
- Financing entity: Universidad de JAEN
- Responsable: Feito-Higueruela, Francisco Ramon
- Start date: 01/01/2017
- End date: 31/12/2018

## **Uso de técnicas computacionales para mejorar el cumplimiento de los recordatorios en entornos inteligentes**

- Identity code: 734355
- Financing entity: Comisión Europea, MSCA-RISE - Intercambio de personal de investigación e innovación Marie Skłodowska-Curie (RISE)
- Responsable: Chris Nugent
- Responsable local: Macarena Espinilla-Estévez, Luis Martínez López
- Time: Enero 2017 - Diciembre 2020

## **APOYO A LAS ESTRUCTURAS DE INVESTIGACIÓN. ACCIÓN 1 PAIUA 2017 2018: TIC220**

- Code:Acción 1\_2017\_TIC220\_2017
- Project scope:Autonómica
- Funding program:PLAN DE APOYO A LA I+D+I DE LA UNIVERSIDAD DE JAÉN. Acción 1\_2017
- Financing entity:Universidad de JAEN
- Responsable:Cañada-Bago, Joaquin
- Start date:01/01/2017
- End date:31/12/2018

## **734355 The use of computational techniques to Improve compliance to reminders within smart environments**

- Funding program: H2020-EU.1.3.3. - Stimulating innovation by means of cross-fertilisation of knowledge
- Financing entity: Comisión Europea
- Responsable: Espinilla Estévez, Macarena
- Start date: 01/01/2017
- End date: 31/12/2020

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## **2016**

### **Grants: Action 2/2015 - Individual Researcher**

- **Code:** Acción 2\_2016/00149/001
- **Project Scope:** Regional
- **Funding Program:** I+D+I Support Plan of the University of Jaén. Action 2\_2015\_Individual

- **Financing Entity:** University of Jaén
- **Responsible:** Ureña-López, L. Alfonso
- **Start Date:** 23/05/2016
- **End Date:** 23/05/2016

**Mobility Stays for Senior Professors and Researchers in Foreign Institutions, including the Salvador de Madariaga Program. Call 2015**

- **Code:** PR2015/00080
- **Project Scope:** National
- **Funding Program:** State Plan for Scientific, Technical, and Innovation Research. Modalidad A: Madariaga\_2015
- **Financing Entity:** Ministry of Economy and Competitiveness
- **Responsible:** Martín-Valdivia, M<sup>a</sup> Teresa
- **Start Date:** 01/05/2016
- **End Date:** 31/07/2016

**Recognition of Digital Entities: Enrichment and Monitoring through Language Technologies (REDES)**

- **Code:** TIN2015-65136-C2-1-R
- **Project Scope:** National
- **Funding Program:** National Plan. State Program for R&D&i Focused on Societal Challenges
- **Financing Entity:** Ministry of Economy and Competitiveness

- **Responsible:**
- **Start Date:** 01/01/2016
- **End Date:** 31/12/2018

## **REDES: Recognition of Digital Entities: Enrichment and Monitoring through Language Technologies**

- **Code:** TIN2015-65136-C2
- **Project Scope:** National
- **Funding Program:** National Plan. State Program for R&D&i Focused on Societal Challenges
- **Financing Entity:** Ministry of Economy and Competitiveness
- **Responsible:**
- **Start Date:** 01/01/2016
- **End Date:** 31/12/2018

## **Recognition of Digital Entities: Enrichment and Monitoring through Language Technologies**

- **Code:** 2016/00114
- **Project Scope:** National
- **Funding Program:** National R&D&i Plan. MINECO: R&D&i Projects Challenges 2015
- **Financing Entity:** Ministry of Economy and Competitiveness
- **Responsible:** Martín-Valdivia, M<sup>a</sup> Teresa; Ureña-López, L. Alfonso
- **Start Date:** 01/01/2016

- **End Date:** 31/12/2018

#### **Statistical Modeling of Confusion Matrices in IG Quality**

- **Code:** CTM2015-68276-R
- **Project Scope:** National
- **Funding Program:** National R&D&i Plan. MINECO: R&D&i Projects Challenges 2015
- **Financing Entity:** Ministry of Economy and Competitiveness
- **Responsible:** Alba-Fernández, M<sup>a</sup> Virtudes
- **Start Date:** 01/01/2016
- **End Date:** 31/12/2018

#### **MEMCALIG: Statistical Modeling of Confusion Matrices in IG Quality**

- **Code:** CTM2015-68276-R
- **Project Scope:** National
- **Funding Program:** National R&D&i Plan. MINECO: R&D&i Projects Challenges 2015
- **Financing Entity:** Ministry of Economy and Competitiveness
- **Start Date:** 01/01/2016
- **End Date:** 31/12/2018

#### **Strengthening the University of Ngozi in Burundi, A Beacon for Peace and Integration**

- **Code:** BOP 119 of June 23, 2016

- **Project Scope:** International
- **Funding Program:** Provincial Fund for Solidarity and Development Aid, for Cooperation and Development Aid Projects. 2016 Exercise.
- **Financing Entity:** Provincial Council of Jaén
- **Responsible:** Belart-Rodríguez, Pilar
- **Start Date:** 01/01/2016
- **End Date:** 31/12/2017

#### **Strengthening the University of Ngozi in Burundi: A Beacon for Peace and Multi-Ethnic Integration**

- **Code:** BOP 130 of July 9, 2015
- **Project Scope:** International
- **Funding Program:** Provincial Fund for Solidarity and Development Aid, for Cooperation and Development Aid Projects. 2015 Exercise.
- **Financing Entity:** Provincial Council of Jaén
- **Responsible:** Belart-Rodríguez, Pilar
- **Start Date:** 01/01/2016
- **End Date:** 31/12/2016

#### **Diagnosis of the Current Situation of Methodologies and Procedures Used for Evaluating Geographic Information Quality in the Member States of the Pan American Institute of Geography**

- **Code:** IPGH 2010-2020
- **Project Scope:** International

- **Funding Program:** Technical Assistance Program of the Pan American Institute of Geography and History (IPGH) 2016
- **Financing Entity:** Pan American Institute of Geography and History (IPGH)
- **Responsible:** Chicaiza, Elena Gabriela
- **Start Date:** 01/01/2016
- **End Date:** 31/12/2016

#### **Group Grants. Action 2/2015 - Strategic Aggregation of Research Groups**

- **Code:** Acción 2\_2016/00126/001
- **Project Scope:** Regional
- **Funding Program:** I+D+I Support Plan of the University of Jaén. Action 2\_2015\_Aggregation
- **Financing Entity:** University of Jaén
- **Responsible:** Feito-Higueruela, Francisco Ramon
- **Start Date:** 01/06/2016
- **End Date:** 31/05/2017

#### **Incentives for Excellence at the University of Jaén**

- **Code:** R4/02/2016
- **Project Scope:** Regional
- **Funding Program:** Research, Technological Development, and Innovation Support Plan (2014-2015). Extended until 2016

- **Start Date:** 01/06/2016
- **End Date:** 31/05/2017

### **Grants for Prototype Development and Patentable Pilot Experiences**

- **Code:** 2016-UJA. Grants for Prototype Development and Patentable Pilot Experiences
- **Project Scope:** Regional
- **Funding Program:** University of Jaén
- **Financing Entity:** University of Jaén
- **Responsible:** Espinilla-Estévez, Macarena
- **Start Date:** 18/03/2016
- **End Date:** 31/10/2016

### **Advances in Simulation and Geometric Modeling of Bone Fractures Using Fracture Patterns Based on Mechanical Experimentation**

- **Code:** DPI2015-65123-R
- **Project Scope:** National
- **Funding Program:** State R&D&I Program, Aimed at Societal Challenges. Modality 1
- **Financing Entity:** Ministry of Economy and Competitiveness
- **Responsible:** Jiménez-Delgado, Juan José
- **Start Date:** 01/01/2016

- **End Date:** 31/12/2019

### **Characterization and Modeling of Spectral Irradiances on Inclined Planes and Direct Normal Using Statistical Techniques and Artificial Intelligence**

- **Code:** 2016/00224
- **Project Scope:** National
- **Funding Program:** Plurianual Activities Plans\_CEAEMA. Grants for Research Projects
- **Financing Entity:** University of Jaén
- **Responsible:** Castro-Galiano, Eulogio; Nofuentes Garrido, Gustavo Eduardo
- **Start Date:** 01/07/2016
- **End Date:** 31/12/2017

### **Current Challenges in Data Mining: New Models for Solving Problems with Difficult Classes**

- **Code:** UJA2014/06/15
- **Project Scope:** Regional
- **Funding Program:** I+D+I Support Plan (2014-2015). University of Jaén
- **Financing Entity:**
- **Responsible:** Rivera-Rivas, Antonio Jesús
- **Start Date:** 18/03/2016
- **End Date:** 31/03/2017

**Data Science Models for Solving Complex Problems. Applications in Biomedicine, Biotechnology, Renewable Energy, and Business.**

- **Code:** 2016/00104
- **Project Scope:** National
- **Funding Program:** National R&D&I Plan. MINECO: R&D&I Projects Challenges 2015
- **Financing Entity:** Ministry of Economy and Competitiveness
- **Responsible:** Del Jesus-Diaz, María José; Gonzalez-Garcia, Pedro
- **Start Date:** 01/01/2016
- **End Date:** 31/12/2018

**Development of Tools in Data Mining Using Models Based on Imprecise Probabilities. Applications in Traffic Problems**

- **Code:** TEC2015-69496-R
- **Project Scope:** National
- **Funding Program:** National R&D&I Research Projects, 2015 Call
- **Financing Entity:** Ministry of Economy and Competitiveness
- **Responsible:** Abellán-Mulero, Joaquín; Mantas-Ruiz, Carlos Javier
- **Start Date:** 01/01/2016
- **End Date:** 31/12/2018

**Development of a Photovoltaic Module Based on New Optical Concepts Operating at Ultra-High Concentration (UHCPV)**

- **Code:** 2016/00033
- **Project Scope:** Regional
- **Funding Program:** I+D+I Support Plan (2015). Action 7. Funding for Multidisciplinary Research Projects in Strategic Areas
- **Financing Entity:** University of Jaén
- **Responsible:** Almonacid Cruz, Florencia
- **Start Date:** 01/01/2016
- **End Date:** 31/12/2017

#### **Development of a Photovoltaic Module Based on New Optical Concepts Operating at Ultra-High Concentration**

- **Code:** UJA2015/07/01
- **Project Scope:** Regional
- **Funding Program:** University of Jaén
- **Financing Entity:** University of Jaén
- **Responsible:**
- **Start Date:** 01/01/2016
- **End Date:** 12/12/2017

#### **2016/00111: Audiovisual Interactions for Social Robots in Smart Homes**

- **Funding Program:** National R&D&I Plan. MINECO: R&D&I Projects Challenges 2015

- **Financing Entity:** Ministry of Economy and Competitiveness
  - **Responsible:** Reche López, Pedro
  - **Start Date:** 01/01/2016
  - **End Date:** 31/12/2018
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#### **Smart Sound Processing for Digital Living (Coordinated Project)**

- **Financing Entity:** MEC (Ministry of Economy and Competitiveness)
- **Project Reference:** TEC2015-67387
- **Type of Call:** National
- **Participating Entities:** University of Jaén, Polytechnic University of Valencia, University of Oviedo, and University of Alcalá
- **Duration:** 2016-2018
- **Principal Investigator:** Alberto González Salvador
- **Number of Researchers:** 35
- **Research Line:** Source Separation, Sheet Music Tracking

#### **Smart Sound Processing for Digital Living: Interactive Music (Subproject)**

- **Financing Entity:** MEC (Ministry of Economy and Competitiveness)
- **Project Reference:** TEC2015-67387-C4-2-R
- **Type of Call:** National

- **Participating Entities:** University of Jaén
  - **Duration:** 2016-2018
  - **Principal Investigator:** Pedro Vera Candéas
  - **Number of Researchers:** 8
  - **Research Line:** Source Separation, Sheet Music Tracking
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## 2015 or Earlier

### Language Technology Resources Network

- **Code:** TIN2015-68955-REDT
- **Project Scope:** National
- **Funding Program:** State Program for Scientific Excellence Research, State Knowledge Generation Subprogram
- **Financing Entity:**
- **Responsible:** Gómez-Pérez, Asunción
- **Start Date:** 01/12/2015
- **End Date:** 30/11/2017

### Tools and Models in Data Science Using Computational Intelligence. Big Data

- **Code:** TIN2014-57251-P
- **Project Scope:** National

- **Funding Program:** National R&D&i Plan, 2014 Call
- **Financing Entity:** Ministry of Economy and Competitiveness
- **Responsible:** Herrera-Triguero, Francisco
- **Start Date:** 01/01/2015
- **End Date:** 31/12/2017

### **Big Data and Scalable Data Analysis**

- **Code:** TIN2014-56425-REDT
- **Project Scope:** National
- **Funding Program:** Excellence Networks Dynamization Actions
- **Financing Entity:** Ministry of Economy and Competitiveness
- **Responsible:**
- **Start Date:** 01/12/2014
- **End Date:** 30/11/2017

### **Influence of Social Media on Ecological and Olive Oil Commercial Activity in the Jaén Cooperatives**

- **Code:** 2014/00157
- **Project Scope:** Regional
- **Funding Program:** Local Financing 2014 Public/Private. R&D&I Projects
- **Financing Entity:** Institute of Giennese Studies (Provincial Council of Jaén)

- **Responsible:** Bernal-Jurado, Enrique
- **Start Date:** 29/09/2014
- **End Date:** 15/10/2015

### **Evolutionary Algorithms for the Extraction of Fuzzy Association Rules**

- **Code:** PYR-2014-2
- **Project Scope:** Regional
- **Funding Program:** GENIL-PYR-2014 Program
- **Financing Entity:** University of Granada. GENIL
- **Responsible:** Alcalá-Fernández, Jesús
- **Start Date:** 01/04/2014
- **End Date:** 31/03/2015

### **Implementation and Exploitation of a Big Data Environment for Data Mining Problems**

- **Code:** 2013/00098
- **Project Scope:** National
- **Funding Program:** Plurianual Activities Plans\_CEATIC. Grants for Research Projects
- **Financing Entity:** University of Jaén
- **Responsible:** Gonzalez-Garcia, Pedro; Martínez-López, Luis
- **Start Date:** 15/10/2013

- **End Date:** 31/05/2015

## **New Problems in Data Mining: Solutions with Soft Computing Techniques**

- **Code:** 2013/00009
- **Project Scope:** National
- **Funding Program:** National R&D&I Plan (2008-2011). National Program for R&D&I Projects, Strategic Health and Telecommunications Programs
- **Financing Entity:** Ministry of Science and Innovation
- **Responsible:** Del Jesus-Diaz, María José
- **Start Date:** 01/01/2013
- **End Date:** 31/12/2015