



Pablo Millán Gata

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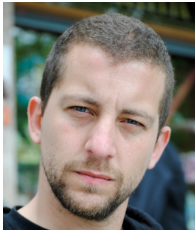
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General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Ha participado en 7 proyectos de I+D nacionales y 1 proyecto europeo en el marco del Seventh Framework Program (FP7), además de un proyecto transferencia tecnológica con la empresa Befesa y 2 de innovación aplicados a cooperación internacional en Honduras y Paraguay. Es autor o coautor de más de 50 publicaciones en congresos, libros y revistas nacionales e internacionales. Está en posesión de un sexenio de investigación en el tramo 2008-2013. Ha recibido el Premio Extraordinario de Doctorado de la Universidad de Sevilla y el Premio Mejores Tesis Doctorales del Ayuntamiento de Sevilla, que otorga un único premio para el área ingeniería+arquitectura. En la actualidad, tiene un índice h 14 según Google Scholar.

**Pablo Millán Gata**

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Current professional situation

Employing entity: Universidad Loyola Andalucía **Type of entity:** University
Department: Escuela Técnica Superior de Ingeniería
Professional category: Director del Departamento de Ingeniería
Start date: 01/12/2015

Employing entity: Universidad Loyola Andalucía **Type of entity:** University
 Andalucía
Department: Escuela Técnica Superior de Ingeniería
Professional category: Profesor Adjunto
Start date: 01/03/2015
Dedication regime: Full time

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad Loyola Andalucía	Profesor Ayudante Doctor	08/01/2014
2	Universidad Loyola Andalucía	Profesor Ayudante	08/01/2013
3	Universidad de Sevilla	Técnico Especialista	16/07/2012
4	Universidad de Sevilla	FPU (Beca Formación Profesorado Universitario)	16/07/2008



	Employing entity	Professional category	Start date
5	Universidad de Sevilla	Técnico Especialista	01/01/2008
6	Universidad de Sevilla	Técnico Especialista	01/03/2007

- 1** **Employing entity:** Universidad Loyola Andalucía **Type of entity:** University
Professional category: Profesor Ayudante Doctor
Start-End date: 08/01/2014 - 28/02/2015 **Duration:** 1 year
- 2** **Employing entity:** Universidad Loyola Andalucía **Type of entity:** University
Professional category: Profesor Ayudante
Start-End date: 08/01/2013 - 07/01/2014 **Duration:** 1 year
- 3** **Employing entity:** Universidad de Sevilla **Type of entity:** University
Professional category: Técnico Especialista
Start-End date: 16/07/2012 - 31/12/2012 **Duration:** 5 months - 16 days
- 4** **Employing entity:** Universidad de Sevilla **Type of entity:** University
Professional category: FPU (Beca Formación Profesorado Universitario)
Start-End date: 16/07/2008 - 15/07/2012 **Duration:** 4 years
- 5** **Employing entity:** Universidad de Sevilla **Type of entity:** University
Professional category: Técnico Especialista
Start-End date: 01/01/2008 - 30/06/2008 **Duration:** 7 months
- 6** **Employing entity:** Universidad de Sevilla **Type of entity:** University
Professional category: Técnico Especialista
Start-End date: 01/03/2007 - 30/11/2007 **Duration:** 9 months



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1 University degree:** Master
Name of qualification: Máster en Automática, Robótica y Telemática
Degree awarding entity: Universidad de Sevilla **Type of entity:** University
Date of qualification: 08/03/2009
- 2 University degree:** Higher degree
Name of qualification: Ingeniero Industrial Especialidad Ingeniería Ambiental
Degree awarding entity: Universidad de Sevilla **Type of entity:** University
Date of qualification: 02/10/2007

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Automática, Robótica y Telemática
Degree awarding entity: Universidad de Sevilla **Type of entity:** University
City degree awarding entity: Sevilla, Andalusia, Spain
Date of degree: 02/10/2012
DEA awarding entity: Universidad de Sevilla
Date DEA was awarded: 08/03/2009
European doctorate: Yes **Date of certificate:** 02/10/2012
Thesis title: Robust Analysis and Design of Networked Control Systems with Applications (Control de Sistemas a través de Red: Análisis y Diseño de Controladores con Restricción de Canal)
Thesis director: Francisco Rodríguez Rubio
Thesis co-director: Carlos Vivas Venegas
Obtained qualification: Cum Laude
Recognition of quality: Yes
Special doctorate award: Yes

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1 Training title:** Python: Machine Learning, Optimización y Aplicaciones
Awarding entity: Universidad de Sevilla **Type of entity:** University
End date: 04/12/2019 **Duration in hours:** 84 hours
- 2 Training title:** Diseño y fabricación de circuitos electrónicos
Awarding entity: Seminario del Departamento de Ingeniería de la Universidad Loyola Andalucía
End date: 24/05/2018 **Duration in hours:** 8 hours



- 3 Training title:** Trabajo en equipo - Gastrocoaching
Awarding entity: Stacia Consultores
End date: 14/12/2016
Type of entity: Business
Duration in hours: 5 hours
- 4 Training title:** Escuela de la Transición Energética y el Cambio Climático
Awarding entity: Fundación Focus-Abengoa
End date: 11/06/2015
Type of entity: Foundation
Duration in hours: 15 hours
- 5 Training title:** VII Seminario de Preparación de Propuestas al Programa Marco de Investigación e Innovación Horizonte 2020
Awarding entity: Agencia Andaluza del Conocimiento
End date: 04/12/2014
Duration in hours: 16 hours
- 6 Training title:** Energías renovables como instrumento de lucha contra la pobreza
Awarding entity: Universidad Loyola Andalucía
End date: 24/11/2014
Type of entity: University
Duration in hours: 4 hours
- 7 Training title:** Jornadas de Investigación del Departamento de Matemáticas e Ingeniería
Awarding entity: Universidad Loyola Andalucía
End date: 10/04/2014
Duration in hours: 9 hours
- 8 Training title:** VI Jornada sobre la Investigación Científica en la Universidad Loyola Andalucía
Awarding entity: Universidad Loyola Andalucía
End date: 30/01/2014
Type of entity: University
Duration in hours: 5 hours
- 9 Training title:** V Jornada sobre la Investigación Científica en la Universidad Loyola Andalucía
Awarding entity: Universidad Loyola Andalucía
End date: 01/04/2013
Type of entity: University
Duration in hours: 6 hours
- 10 Training title:** Fundamentos SCADA Proficy Ifix
Awarding entity: Opertek
End date: 10/05/2012
Type of entity: Business
Duration in hours: 21 hours
- 11 Training title:** Auditorías Energéticas en la Edificación
Awarding entity: Colegio Oficial de Ingenieros Industriales de Andalucía Occidental
End date: 02/06/2010
Type of entity: Colegio Profesional
Duration in hours: 24 hours
- 12 Training title:** Habilidades Directivas: Gestión por Competencias y Coaching
Awarding entity: Colegio Oficial de Ingenieros Industriales de Andalucía Occidental
End date: 27/05/2010
Type of entity: Colegio Profesional
Duration in hours: 16 hours
- 13 Training title:** Instalaciones Eléctricas en Baja Tensión: Reglamentación y Soluciones.
Awarding entity: Colegio Oficial de Ingenieros Industriales de Andalucía Occidental
End date: 22/10/2009
Type of entity: Colegio Profesional
Duration in hours: 40 hours
- 14 Training title:** Networked Control Systems
Awarding entity: European Embedded Control Institute
End date: 20/03/2009
Type of entity: Public Research Body
Duration in hours: 21 hours



- 15 Training title:** 7th Framework Programme: How to solicitate European projects
Awarding entity: Instituto de Ciencias de la Educación **Type of entity:** University Research Institute

Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

- 1 Title of course/seminar:** V Seminario de Innovación Docente en Automática y XVII Simposio de Ingeniería de Control
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Duration in hours: 20 hours
Start-End date: 30/01/2019 - 01/02/2019
- 2 Title of course/seminar:** Uso de recursos de vídeo para Flipped Classroom
Organising entity: Universidad Loyola Andalucía
Duration in hours: 4 hours
Start-End date: 17/09/2018 - 17/09/2018
- 3 Title of course/seminar:** Diseño y fabricación de circuitos electrónicos
Goals of the course/seminar: Conocer herramienta profesional para el diseño de circuitos, el proceso de fabricación de los mismos y realización de un proyecto
Organising entity: Departamento de Ingeniería, Universidad Loyola Andalucía **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingeniería
Duration in hours: 8 hours
Start-End date: 07/05/2018 - 24/05/2018
- 4 Title of course/seminar:** III Seminario CEA de Innovación Docente en Automática
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Faculty, institute or centre: Universidad Loyola Andalucía
Duration in hours: 20 hours
Start-End date: 12/01/2017 - 13/01/2017
- 5 Title of course/seminar:** Herramientas Audiovisuales en el Contexto de la Flipped Classroom
Organising entity: Universidad Loyola Andalucía **Type of entity:** University
Duration in hours: 2 hours
Start-End date: 15/06/2016 - 15/06/2016
- 6 Title of course/seminar:** Formación para PDI del European Lifelong Learning Programme
Organising entity: European Lifelong Learning Programme
Faculty, institute or centre: CNRS, Toulouse
Duration in hours: 112 hours
Start-End date: 15/06/2015 - 28/06/2015
- 7 Title of course/seminar:** II Seminario de Innovación Docente en Automática
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Duration in hours: 20 hours
Start-End date: 15/01/2015 - 16/01/2015



- 8** **Title of course/seminar:** Herramientas de Minería de Datos. Introducción a Knime.
Organising entity: Universidad Loyola Andalucía
Duration in hours: 2 hours
Start-End date: 15/12/2014 - 15/12/2014
- 9** **Title of course/seminar:** Teaching Physics with Matlab
Goals of the course/seminar: Formar a profesores de universidad en la enseñanza de física utilizando Matlab.
Organising entity: Mathworks, Inc. **Type of entity:** Business
Faculty, institute or centre: Universidad de Sevilla
Duration in hours: 3 hours
Start-End date: 25/09/2014 - 25/09/2014
- 10** **Title of course/seminar:** Formación para PDI del European Lifelong Learning Programme
Organising entity: European Lifelong Learning Programme
Duration in hours: 40 hours
Start-End date: 18/08/2014 - 22/08/2014
- 11** **Title of course/seminar:** Summer School on Advances Statistics and Data Mining
Goals of the course/seminar: Formar a los docentes en técnicas estadísticas avanzadas (series temporales)
Organising entity: Universidad Politécnica de Madrid **Type of entity:** University
Duration in hours: 15 hours
Start-End date: 23/06/2014 - 27/06/2014
- 12** **Title of course/seminar:** Evaluación del Aprendizaje basado en Competencias
Goals of the course/seminar: Diseñar y desarrollar un sistema de evaluación basado en competencias, en coherencia con la estrategia de enseñanza-aprendizaje
Organising entity: Unidad de Formación y Calidad **Type of entity:** University
Docente de la Universidad Loyola Andalucía
Duration in hours: 20 hours
Start-End date: 18/06/2014 - 20/06/2014
- 13** **Title of course/seminar:** Segmentación de Series Temporales
Organising entity: Departamento de Matemáticas e Ingeniería, Universidad Loyola Andalucía.
Duration in hours: 2 hours
Start-End date: 12/06/2014 - 12/06/2014
- 14** **Title of course/seminar:** Jornadas de Innovación Docente 2014
Goals of the course/seminar: Compartir y aprender de las distintas prácticas docentes innovadoras puestas en marcha por el profesorado durante el curso académico 2013/2014.
Organising entity: Unidad de Formación y Calidad **Type of entity:** University
Docente de la Universidad Loyola Andalucía
Duration in hours: 5 hours
Start-End date: 11/06/2014 - 11/06/2014
- 15** **Title of course/seminar:** XXXIV Jornadas Nacionales de Automática
Goals of the course/seminar: Reunir a los docentes e investigadores españoles en el área de automática con el objetivo de mejorar la educación en automática, difundir resultados y trabajos propios y actualizarse con los nuevos trabajos que realizan los grupos de investigación nacionales.
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Faculty, institute or centre: Universitat Politècnica de Catalunya
Duration in hours: 24 hours



Start-End date: 04/09/2013 - 06/09/2013

- 16 Title of course/seminar:** Aprendizaje por competencias y metodologías activas de enseñanza
Goals of the course/seminar: Formar a los docentes en las distintas estrategias orientadas a la enseñanza-apredizaje por competencias
Organising entity: Universidad Loyola Andalucía
Duration in hours: 20 hours
Start-End date: 12/06/2013 - 24/06/2013
- 17 Title of course/seminar:** Social and Economics Networks
Goals of the course/seminar: Formación en Teoría de Grafos y Redes con aplicaciones a las ciencias sociales y la economía
Organising entity: Coursera (Universidad de Stanford)
Duration in hours: 40 hours
Start-End date: 01/05/2013 - 01/06/2013
- 18 Title of course/seminar:** XXXII Jornadas Nacionales de Automática
Goals of the course/seminar: Reunir a los docentes e investigadores españoles en el área de automática con el objetivo de mejorar la educación en automática, difundir resultados y trabajos propios y actualizarse con los nuevos trabajos que realizan los grupos de investigación nacionales.
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Faculty, institute or centre: Universidad de Sevilla
Duration in hours: 21 hours
Start-End date: 07/09/2011 - 09/09/2011
- 19 Title of course/seminar:** XXXI Jornadas Nacionales de Automática
Goals of the course/seminar: Reunir a los docentes e investigadores españoles en el área de automática con el objetivo de mejorar la educación en automática, difundir resultados y trabajos propios y actualizarse con los nuevos trabajos que realizan los grupos de investigación nacionales.
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Faculty, institute or centre: Universidad de Jaen
Duration in hours: 21 hours
Start-End date: 08/09/2011 - 10/09/2010
- 20 Title of course/seminar:** XXX Congreso Nacional de Automática
Goals of the course/seminar: Reunir a los docentes e investigadores españoles en el área de automática con el objetivo de mejorar la educación en automática, difundir resultados y trabajos propios y actualizarse con los nuevos trabajos que realizan los grupos de investigación nacionales.
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Faculty, institute or centre: Universidad de Valladolid
Duration in hours: 21 hours
Start-End date: 02/09/2009 - 04/09/2009
- 21 Title of course/seminar:** XXIX Jornadas de Automática
Goals of the course/seminar: Reunir a los docentes e investigadores españoles en el área de automática con el objetivo de mejorar la educación en automática, difundir resultados y trabajos propios y actualizarse con los nuevos trabajos que realizan los grupos de investigación nacionales.
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Faculty, institute or centre: Universidad de Tarragona
Duration in hours: 21 hours
Start-End date: 03/09/2008 - 05/09/2008

**22 Title of course/seminar:** XXVIII Jornadas de Automática

Goals of the course/seminar: Reunir a los docentes e investigadores españoles en el área de automática con el objetivo de mejorar la educación en automática, difundir resultados y trabajos propios y actualizarse con los nuevos trabajos que realizan los grupos de investigación nacionales.

Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC

Faculty, institute or centre: Universidad de Huelva

Duration in hours: 21 hours

Start-End date: 05/09/2007 - 07/09/2007

23 Title of course/seminar: Advanced Certificate in English

Goals of the course/seminar: Mejorar y Certificar el nivel de inglés

Organising entity: University of Cambridge

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English		C1	C1	C1	C1
Spanish		C2	C2	C2	C2

Teaching experience**General teaching experience****1 Type of teaching:** Official teaching

Name of the course: Automatic Control

Type of programme: Engineering

University degree: Grado en Ingeniería Mecatrónica y Robótica

Frequency of the activity: 4

Start date: 01/2019

End date: 05/2019

End date: 05/2019

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: Universidad Loyola Andalucía

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingeniería

City of entity: Sevilla,

Mark obtained: 8.82

Top mark possible: 10

Subject language: English

2 Type of teaching: Official teaching

Name of the course: Métodos Numéricos en Ingeniería

University degree: Grado en Ingeniería Electromecánica

Frequency of the activity: 4

Start date: 01/2019

End date: 05/2019

End date: 05/2019

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 6

Entity: Universidad Loyola Andalucía

Type of entity: University

City of entity: Sevilla,

Mark obtained: 8.37

Top mark possible: 10



Subject language: English

- 3** **Type of teaching:** Official teaching
Name of the course: Modelado y Simulación de Sistemas
Type of programme: Engineering
University degree: Grado en Ingeniería Mecatrónica y Robótica
Frequency of the activity: 4
Start date: 01/2019 **End date:** 05/2019
End date: 05/2019 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 3
Entity: Universidad Loyola Andalucía
City of entity: Sevilla,
Mark obtained: 8.67 **Top mark possible:** 10
- 4** **Name of the course:** Diseño Electrónico e Instrumentación
University degree: Máster Universitario en Ingeniería Industrial
Course given: 1 **Frequency of the activity:** 4
Start date: 10/2017 **End date:** 12/2018
End date: 12/2018 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 4
Entity: Universidad Loyola Andalucía
Department: Ingeniería
Subject language: Spanish
- 5** **Type of teaching:** Official teaching
Name of the course: Regulación Automática
Type of programme: Engineering
Type of subject: Obligatory
University degree: Grado en Ingeniería Electromecánica
Course given: 2 **Frequency of the activity:** 1
Start date: 01/2017 **End date:** 05/2018
End date: 05/2018 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 5
Entity: Universidad Loyola Andalucía
Department: Ingeniería
City of entity: Sevilla, Andalusia, Spain
Mark obtained: 7,5 **Top mark possible:** 10
Subject language: English
- 6** **Type of teaching:** Official teaching
Name of the course: Tecnología del Medio Ambiente
Type of programme: Engineering
Type of subject: Obligatory
Assessment type: Survey
University degree: Grado en Ingeniería de Organización Industrial
Course given: 1 **Frequency of the activity:** 2
Start date: 01/2016 **End date:** 05/2018
End date: 05/2018 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 18
Entity: Universidad Loyola Andalucía **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingeniería



Department: Ingeniería

City of entity: Sevilla, Andalusia, Spain

Assessment entity: Universidad Loyola Andalucía

City assessment entity: Sevilla, Andalusia, Spain

Assessment type: Survey

Mark obtained: 7.9

Subject language: Spanish

Top mark possible: 10

7 **Type of teaching:** Official teaching

Name of the course: Tecnología del Medio Ambiente

Type of programme: Engineering

Type of subject: Obligatory

Assessment type: Survey

University degree: Grado en Ingeniería Electromecánica

Course given: 1

Start date: 01/2014

End date: 05/2019

Hours/ECTS credits: 35

Entity: Universidad Loyola Andalucía

Faculty, institute or centre: Escuela Técnica Superior de Ingeniería

Department: Ingeniería

City of entity: Sevilla, Andalusia, Spain

Assessment entity: Universidad Loyola Andalucía

City assessment entity: Sevilla, Andalusia, Spain

Assessment type: Survey

Mark obtained: 8.3

Subject language: Spanish

Type of teaching: In person theory

Frequency of the activity: 4

End date: 05/2018

Type of hours/ ECTS credits: Credits

Type of entity: University

Top mark possible: 10

8 **Type of teaching:** Official teaching

Name of the course: Tecnología de Fabricación

Type of programme: Engineering

Type of subject: Obligatory

Assessment type: Survey

University degree: Grado en Ingeniería Electromecánica

Course given: 3

Start date: 09/2015

End date: 12/2017

Hours/ECTS credits: 8

Entity: Universidad Loyola Andalucía

Faculty, institute or centre: Escuela Técnica Superior de Ingeniería

Department: Ingeniería

City of entity: Sevilla, Andalusia, Spain

Assessment entity: Universidad Loyola Andalucía

City assessment entity: Sevilla, Andalusia, Spain

Assessment type: Survey

Mark obtained: 8.2

Subject language: English

Frequency of the activity: 2

End date: 12/2017

Type of hours/ ECTS credits: Credits

Type of entity: University

Top mark possible: 10

9 **Type of teaching:** Official teaching

Name of the course: Matemáticas II

Type of programme: Grado



Type of subject: Obligatory
Assessment type: Survey
University degree: Grado en Administración y Dirección de Empresas
Course given: 1 **Frequency of the activity:** 3
Start date: 01/2014 **End date:** 06/2016
End date: 06/2016 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 30
Entity: Universidad Loyola Andalucía **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Económicas y Empresariales
Department: Matemáticas e Ingeniería
City of entity: Sevilla y Córdoba, Andalusia, Spain
Assessment entity: Universidad Loyola Andalucía
City assessment entity: Sevilla y Córdoba, Andalusia, Spain
Assessment type: Survey
Mark obtained: 7.41 **Top mark possible:** 10
Subject language: Spanish

10 **Type of teaching:** Official teaching
Name of the course: Mecanismos y Elementos de Máquinas
Type of programme: Engineering
Type of subject: Obligatory
Assessment type: Survey
University degree: Grado en Ingeniería Electromecánica
Course given: 2 **Frequency of the activity:** 2
Start date: 09/2014 **End date:** 12/2015
End date: 12/2015 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 6
Entity: Universidad Loyola Andalucía **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingeniería
Department: Ingeniería
City of entity: Sevilla, Andalusia, Spain
Assessment entity: Universidad Loyola Andalucía
City assessment entity: Sevilla, Andalusia, Spain
Assessment type: Survey
Mark obtained: 7.62 **Top mark possible:** 10
Subject language: Spanish

11 **Name of the course:** Distributed Estimation
University degree: Plan de Formación de Doctorado
Start date: 02/03/2015 **End date:** 02/03/2015
End date: 02/03/2015 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 4
Entity: Universidad Loyola Andalucía **Type of entity:** University

12 **Type of teaching:** Unofficial teaching
University degree: Sustainability and Alternative Energy Business Inside Program
Start date: 06/2014 **End date:** 06/2014
End date: 06/2014 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 5
Entity: Universidad Loyola Andalucía **Type of entity:** University
City of entity: Sevilla, Andalusia, Spain



- 13** **Name of the course:** Automatización de Procesos Industriales
University degree: Ingeniero de Organización Industrial
Start date: 2011 **End date:** 2012
End date: 2012 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 0,5
Entity: Universidad de Sevilla **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros
- 14** **Name of the course:** Control Automático
University degree: Ingeniero Aeronáutico
Start date: 2011 **End date:** 2012
End date: 2012 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 0,55
Entity: Universidad de Sevilla **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros
- 15** **Name of the course:** Control Automático
University degree: Ingeniero de Telecomunicaciones
Start date: 2011 **End date:** 2012
End date: 2012 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 2,25
Entity: Universidad de Sevilla **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros
- 16** **Name of the course:** Informática
University degree: Grado en Ingeniería Aeroespacial
Start date: 2010 **End date:** 2011
End date: 2011 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 0,2
Entity: Universidad de Sevilla **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros
- 17** **Name of the course:** Informática
University degree: Graduado en Ingeniería de Tecnologías Industriales
Start date: 2010 **End date:** 2011
End date: 2011 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 3,1
Entity: Universidad de Sevilla **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Optimization strategies of micro-hydropower systems to supply remote isolated communities
Type of project: Doctoral thesis
Co-director of thesis: Pablo Millán Gata; Fabio Gómez-Estern Aguilar
Entity: Universidad Loyola Andalucía **Type of entity:** University
Student: Alejandro Tapia Córdoba
Obtained qualification: Sobresaliente cum laude
Date of reading: 29/11/2019



- 2** **Project title:** Integración Raspberry Pi y microcontrolador Pycom para la realización de tareas complejas en un entorno IoT
Type of project: End of course project
Co-director of thesis: Luis Orihuela Espina; Pablo Millán Gata
Entity: Universidad Loyola Andalucía **Type of entity:** University
City of entity: Sevilla,
Student: María Andrades Cozar
Obtained qualification: 10
Date of reading: 22/07/2019
- 3** **Project title:** Distributed observers for LTI systems: An approach based on subspace decomposition
Type of project: Doctoral thesis
Co-director of thesis: Luis Orihuela Espina; Pablo Millán Gata
Entity: Universidad Loyola Andalucía
City of entity: Sevilla, Spain
Student: Álvaro Rodríguez del Nozal
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 12/07/2019
Date of award: 12/07/2019
- 4** **Project title:** Diseño de cubierta fotovoltaica con conexión a red local para parkings de empresas con puntos de carga rápida para vehículos eléctricos.
Type of project: End of course project
Entity: Universidad Loyola Andalucía
Student: Inmaculada Caballero Ruiz
Obtained qualification: 9
Date of reading: 20/07/2017
- 5** **Project title:** Fabricación de un dron
Type of project: End of course project
Entity: Universidad Loyola Andalucía
Student: Álvaro Alcaraz Martínez
Obtained qualification: 9
Date of reading: 20/07/2017
- 6** **Project title:** Análisis Tecnoeconómico de Plantas Solares Multitorre
Type of project: End of course project
Entity: Universidad Loyola Andalucía
Student: Pablo Collado Ruíz
Obtained qualification: 5
Date of reading: 19/07/2017
- 7** **Project title:** El Sistema de Gestión Ambiental de La Universidad Loyola Andalucía
Type of project: End of course project
Entity: Universidad Loyola Andalucía
Student: Rocío Bajo Galán
Date of reading: 21/09/2015



8 **Project title:** Estudio del Sistema de Gestión Ambiental de la Empresa Sainco
Type of project: End of course project
Entity: Universidad Loyola Andalucía
Student: Ricardo Solanas Morales
Date of reading: 21/09/2015

9 **Project title:** Ensayos de estrategias de control para una micro-turbina Pelton
Type of project: End of course project
Entity: Universidad Loyola Andalucía
Student: Pablo Molina Díaz

Student tutorials

Name of the programme: Tutor de Alumnos Prácticas Externas Universidad de Córdoba
Entity: Universidad Loyola Andalucía **Type of entity:** University
City of entity: Sevilla, Andalusia, Spain
Frequency of the activity: 2
Number of tutored students: 3

Teaching experience in courses and seminars for university teacher training

- 1** **Type of event:** Seminar
Name of the event: Sistemas de Evaluación Basados en Proyectos
Organising entity: Departamento de Matemáticas e Ingeniería, Universidad Loyola Andalucía **Type of entity:** University
Hours of teaching: 2
Teaching date: 19/02/2015
- 2** **Type of event:** Workshop
Name of the event: Automatismos y Sistemas de Control
Organising entity: Departamento de Matemáticas e Ingeniería
Hours of teaching: 1,5
Teaching date: 12/11/2014
- 3** **Type of event:** Seminar
Name of the event: Experiencias con la Evaluación Basada en Proyectos: Constitución de Equipos de Trabajo
Organising entity: Unidad de Formación e Innovación, Universidad Loyola Andalucía
Hours of teaching: 1
Teaching date: 11/06/2014



Other activities/achievements not included above

- 1** **Description of the activity:** Miembro de la Comisión de Igualdad
Organising entity: Universidad Loyola Andalucía
End date: 2019
- 2** **Description of the activity:** Coordinador Grado en Ingeniería Electromecánica
Organising entity: Universidad Loyola Andalucía
End date: 2018
- 3** **Description of the activity:** Miembro de la Comisión de Trabajos Fin de Grado de la ETSI
Organising entity: Universidad Loyola Andalucía
End date: 2017
- 4** **Description of the activity:** Proyecto Innovación Docente: Actuaciones de Éxito en la Universidad Loyola Andalucía: Investigación sobre su impacto en la Excelencia Académica y Humana
Organising entity: Universidad Loyola Andalucía **Type of entity:** University
End date: 2017
- 5** **Description of the activity:** Miembro Comisión Evaluación de Ayudas a la Investigación con Fondos Propios
Organising entity: Universidad Loyola Andalucía **Type of entity:** University
End date: 2016
- 6** **Description of the activity:** Coordinador 2º Curso Ingeniería Electromecánica
Organising entity: Universidad Loyola Andalucía
End date: 2015
- 7** **Description of the activity:** Miembro Electo Claustro de Universidad
Organising entity: Universidad Loyola Andalucía **Type of entity:** University
End date: 2015
- 8** **Description of the activity:** Coordinador 1er Curso Ingeniería Electromecánica
Organising entity: Universidad Loyola Andalucía
End date: 2014
- 9** **Description of the activity:** Miembro del Tribunal de evaluación de las siguientes Tesis Doctorales: - Tesis 1: Título - "Método de aproximación catenaria para la obtención de densidades de fuerza en estructuras tensadas y antifuniculares" Doctorando - Manuel Cañete Güeto - Tesis 2: Título - "Integration of Service Robots in the Smart Home" Doctorando - Javier Ramírez de la Pinta



Scientific and technological experience

Research and development groups/teams

- 1 Name of the group:** Optimization and Control of Distributed Systems
Affiliation entity: Universidad Loyola Andalucía
Start date: 15/01/2020
- 2 Name of the group:** Loyola Teams: Responsabilidad Social y Sostenibilidad
Aims of the group: Investigación
Affiliation entity: Universidad Loyola Andalucía
Start date: 10/01/2015 **Duration:** 2 years - 1 month
- 3 Name of the group:** Ingeniería de Automatización, Control y Robótica
Aims of the group: Automation, Control and Robotics
Affiliation entity: Universidad de Sevilla **Type of entity:** University

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1 Name of the project:** Despliegue Inteligente de una red de Vehículos Acuáticos no Tripulados para la monitorización de Recursos Hídricos
Entity where project took place: Universidad de Sevilla **Type of entity:** University
City of entity: Sevilla, Andalusia, Spain
Name principal investigator (PI, Co-PI...): Sergio Toral Martín; Daniel Gutiérrez Reina
Nº of researchers: 7
Funding entity or bodies: Junta de Andalucía **Type of entity:** FEDER
City funding entity: Sevilla, Andalusia, Spain
Start-End date: 01/10/2019 - 30/09/2022
Total amount: 78.020 €
- 2 Name of the project:** Riego sostenible basado en monitorización distribuida e inteligencia artificial
Entity where project took place: Instituto Andaluz de Investigación y Formación Agraria y Pesquera **Type of entity:** Public Research Body
Name principal investigator (PI, Co-PI...): Pedro Gavilán Zafra
Nº of researchers: 6
Start-End date: 10/04/2019 - 10/04/2022 **Duration:** 3 years
Total amount: 172.953,9 €
- 3 Name of the project:** Sistema de monitorización de agentes contaminantes en el lago Ypacaraí mediante el uso de Vehículos Acuáticos no Tripulados de Superficie
Entity where project took place: Universidad Loyola Andalucía **Type of entity:** University



City of entity: Ypacarai, Paraguay

Name principal investigator (PI, Co-PI....): Pablo Millán Gata; Daniel Gutiérrez Reina; Sergio Toral

Nº of researchers: 8

Start-End date: 01/02/2019 - 01/08/2020

Total amount: 297.850 €

4 Name of the project: Control de Sistemas con Entradas Discretas. Aplicación a Convertidores Electrónicos de Potencia. (COSDIN)

Entity where project took place: Universidad Loyola Andalucía y Universidad de Sevilla

City of entity: Sevilla, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Fabio Gómez-Estern Aguilar; Francisco Gordillo Álvarez

Nº of researchers: 14

Funding entity or bodies:

Ministerio de Economía, Industria y Competitividad

Start-End date: 01/08/2017 - 31/12/2019

Duration: 3 years

Total amount: 54.450 €

5 Name of the project: Cooperación y Negociación Distribuida entre Agentes para la Estimación Distribuida en Sistemas Ciberfísicos

Name principal investigator (PI, Co-PI....): Diego Luis Orihuela Espina

Nº of researchers: 10

Start-End date: 01/01/2017 - 31/12/2019

Total amount: 38.962 €

6 Name of the project: Aplicación de Sistemas de Microhidrocentrales Mejoradas en Comunidades Remotas de Honduras

Entity where project took place: Fundación ETEA, Universidad Loyola Andalucía y Fundación Hondureña para la Investigación Agrícola

Type of entity: Foundation

City of entity: Sevilla, Andalusia, Spain

Nº of researchers: 15

Funding entity or bodies:

Agencia Española de Cooperación Internacional

Type of entity: Agencia

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 2016 - 2017

Total amount: 110.000 €

7 Name of the project: Estimación y Predicción Distribuida de la Radiación para el Control de Campos Solares

Entity where project took place: Universidad de Sevilla y Universidad Loyola Andalucía

Type of entity: University

City of entity: Sevilla, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Francisco Rodríguez Rubio

Nº of researchers: 12

Funding entity or bodies:

Ministerio de Economía y Competitividad

Type of entity: Ministerio

Fondo Europeo de Desarrollo regional

Type of entity: Organismo Europeo

Start-End date: 2014 - 2017

Total amount: 147.000 €



8 Name of the project: Control Realimentado de sistemas integrados en redes inalámbricas (CONRED)
Entity where project took place: Universidad de Sevilla **Type of entity:** University
City of entity: Sevilla, Andalusia, Spain
Name principal investigator (PI, Co-PI....): Francisco Rodríguez Rubio
Nº of researchers: 10
Funding entity or bodies:
 Fondo Europeo de Desarrollo Regional
 Ministerio de Ciencia e Innovación **Type of entity:** Ministerio
Start-End date: 2010 - 2013
Total amount: 195.000 €

9 Name of the project: Control y análisis de sistemas a través de redes de telecomunicación (COYAR)
Entity where project took place: Universidad de Sevilla **Type of entity:** University
City of entity: Sevilla, Andalusia, Spain
Name principal investigator (PI, Co-PI....): Francisco Rodríguez Rubio
Nº of researchers: 10
Funding entity or bodies:
 Fondo Europeo de Desarrollo Regional
 Ministerio de Ciencia e Innovación **Type of entity:** x
City funding entity: Madrid, Community of Madrid, Spain
Start-End date: 2008 - 2010
Total amount: 108.404 €

10 Name of the project: Feedback design for wireless networked systems (FeedNetBack)
Entity where project took place: Universidad de Sevilla **Type of entity:** University
Name principal investigator (PI, Co-PI....): Karl Henrik Johansson; Carlos Canudas de Wit; Francisco Rodríguez Rubio; Eduardo Fernández Camacho; Sandro Zampieri; Manfred Morari
Funding entity or bodies:
 Comisión Europea **Type of entity:** Comisión Europea
City funding entity: Madrid, Community of Madrid, Spain
Start-End date: 2008 - 2010
Total amount: 3.756.750 €

R&D non-competitive contracts, agreements or projects with public or private entities

Name of the project: Evaluación y Diseño de un Dispositivo Recuperador de Presión para Planta Desaladora
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Francisco Rodríguez Rubio; Carlos Vivas Venegas; Pablo Millán Gata; Isabel Jurado Flores
Nº of researchers: 4
Participating entity/entities: Asociación de Investigación y Cooperación Industrial de Andalucía; BEFESA AGUA SA
Start date: 15/03/2006 **Duration:** 2 years



Scientific and technological activities

Scientific production

H index: 14

Date of application: 20/07/2019

Publications, scientific and technical documents

- 1** Ramón García; Luis Orihuela Espina; Pablo Millán Gata; Francisco Rodríguez Rubio; Manuel Gil Ortega. Guaranteed estimation and distributed control of vehicle formations. International Journal of Control. In press, Taylor & Francis, 2020.
Type of production: Scientific paper **Format:** Journal
- 2** Alejandro Tapia Córdoba; Daniel Gutiérrez Reina; Pablo Millán Gata. An Evolutionary Computational Approach for Designing Micro Hydro Power Plants. Energies. 12, pp. 1 - 25. 2019.
Type of production: Scientific paper **Format:** Journal
- 3** Álvaro Rodríguez del Nozal; Pablo Millán Gata; Luis Orihuela Espina. Data fusion based on subspace decomposition for distributed state estimation in multi-hop networks. Sensors. 19 - 1, MDPI, 2019.
Type of production: Scientific paper **Format:** Journal
- 4** Pablo Millán Gata; Luis Orihuela Espina; Isabel Jurado Flores. Distributed agent-based control and estimation over unreliable networks for a class of nonlinear systems. International Journal of Control. 92 - 3, pp. 664 - 676. (Spain): Taylor&Francis, 2019. ISSN 1697-7912
Type of production: Scientific paper **Format:** Journal
- 5** Álvaro Rodríguez del Nozal; Pablo Millán; Luis Orihuela; Alexandre Seuret; Luca Zaccarian. Distributed estimation based on multi-hop subspace decomposition. Automatica. 99, pp. 213 - 220. Elsevier, 2019.
Type of production: Scientific paper **Format:** Journal
- 6** Álvaro Rodríguez del Nozal; Luis Orihuela Espina; Pablo Millán Gata. Distributed estimation design for LTI systems: a linear quadratic approach. International Journal of Systems Science. 50 - 14, pp. 2703 - 2714. Taylor & Francis, 2019.
Type of production: Scientific paper **Format:** Journal
- 7** Alejandro Tapia Córdoba; Pablo Millán Gata; Fabio Gómez-Estern Aguilar. Integer programming to optimize Micro-Hydro Power Plants for generic river profiles. Renewable Energy. 126, pp. 905 - 914. Elsevier, 2018.
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4.357
- 8** Luis Orihuela Espina; Pablo Millán Gata; Samira Roshany-Yamchi; Ramón García. Negotiated distributed estimation with guaranteed performance for bandwidth-limited situations. Automatica. 87, pp. 94 - 102. Elsevier, 2018.
Type of production: Scientific paper
Impact source: ISI

**Impact index in year of publication:** 5.451**Position of publication:** 3**Category:** Science Edition - AUTOMATION & CONTROL SYSTEMS**Journal in the top 25%:** Yes**No. of journals in the cat.:** 60

- 9** Luis Orihuela Espina; Samira Roshany-Yamchi; Ramón García; Pablo Millán Gata. Distributed set-membership observers for interconnected multi-rate systems. Automatica. 85, pp. 221 - 226. 2017.

Type of production: Scientific paper**Impact source:** ISI**Impact index in year of publication:** 2.208**Position of publication:** 3**Category:** Science Edition - AUTOMATION & CONTROL SYSTEMS**Journal in the top 25%:** Yes**No. of journals in the cat.:** 60

- 10** Ramon A Garcia; Francisco R Rubio; Luis Orihuela Espina; Pablo Millán Gata; Manuel G. Ortega. Observaciones distribuidos garantistas para sistemas en red. Revista iberoamericana de automatica e informatica industrial. 14 - 3, pp. 256 - 276. (Spain): Elsevier/RIAI, 2017. ISSN 1697-7912

Type of production: Scientific paper**Impact source:** ISI**Impact index in year of publication:** 0.375**Position of publication:** 49**Source of citations:** WOS**Format:** Journal**Category:** Automation & Control Systems**No. of journals in the cat.:** 59**Citations:** 0

- 11** Luis Orihuela Espina; Pablo Millán Gata; Carlos Vivas Venegas; Francisco Rodríguez Rubio. Suboptimal Distributed Control and Estimation: Application to a Four Water Tank System. International Journal of Systems Science. 47 - 8, pp. 1755 - 1771. Taylor&Francis, 2016.

Type of production: Scientific paper**Format:** Journal

- 12** Luis Orihuela Espina; Pablo Millán Gata; Carlos Vivas Venegas; Francisco Rodríguez Rubio. Distributed Control and Estimation Scheme with Applications to Process Control. IEEE Transactions on Control Systems Technology. 23 - 4, pp. 1563 - 1570. 2015.

Type of production: Scientific paper**Format:** Journal

- 13** Pablo Millán Gata; Luis Orihuela Espina; Isabel Jurado Flores; Carlos Vivas Venegas; Francisco Rodríguez Rubio. Distributed Estimation in Networked Systems under Periodic and Event-Based Communication Policies. International Journal of Systems Science. 46 - 1, pp. 139 - 151. 2015.

Type of production: Scientific paper**Format:** Journal

- 14** Luis Orihuela Espina; Pablo Millán Gata; Carlos Vivas Venegas; Francisco Rodríguez Rubio. H₂/H_∞ Control for Discrete TDS with Application to Networked Control Systems: Periodic and Asynchronous Communication. Optimal Control Applications and Methods. 36 - 1, pp. 60 - 76. 2015.

Type of production: Scientific paper**Format:** Journal

- 15** Isabel Jurado Flores; Pablo Millán Gata; Daniel Quevedo; Francisco Rodríguez Rubio. Stochastic MPC with applications to process control. International Journal of Control. 88 - 4, pp. 792 - 800. Taylor&Francis, 2015.

Type of production: Scientific paper**Format:** Journal

- 16** Francisco Rodríguez Rubio; Pablo Millán Gata; Luis Orihuela Espina; Carlos Vivas Venegas. Estimación y Control Distribuido de Sistemas sobre Redes de Comunicación. Revista Iberoamericana de Informática y Automática Industrial. 11 - 4, pp. 377 - 388. Elsevier, 2014.

Type of production: Scientific paper**Format:** Journal



- 17** Luis Orihuela Espina; Pablo Millán Gata; Carlos Vivas Venegas; Francisco Rodríguez Rubio. Event-based H2/Hinf Controllers for Networked Control Systems. International Journal of Control. 87 - 12, pp. 2488 - 2498. Taylor&Francis, 2014.
Type of production: Scientific paper **Format:** Journal
- 18** Pablo Millán Gata; Luis Orihuela Espina; Isabel Jurado Flores; Francisco Rodríguez Rubio. Formation Control of Autonomous Underwater Vehicles Subject to. Communication Delays. IEEE Transactions on Control Systems Technology. 22 - 2, pp. 770 - 777. 2014.
Type of production: Scientific paper **Format:** Journal
- 19** Luis Orihuela Espina; Pablo Millán Gata; Carlos Vivas Venegas; Francisco Rodríguez Rubio. Reduced Order H2/H ∞ Distributed Observer for Sensor Networks. International Journal of Control. 86 - 10, pp. 1870 - 1879. 2013.
Type of production: Scientific paper **Format:** Journal
- 20** Pablo Millán Gata; Luis Orihuela Espina; Carlos Vivas Venegas; Francisco Rodríguez Rubio. Sensor-Network-Based Robust Distributed Control and Estimation. Control Engineering Practice. 21 - 9, pp. 1238 - 1249. Elsevier, 2013.
Type of production: Scientific paper **Format:** Journal
- 21** Pablo Millán Gata; Luis Orihuela Espina; Carlos Vivas Venegas; Francisco Rodríguez Rubio. Control Óptimo-L2 Basado en Red mediante Funcionales de Lyapunov-Krasovskii. Revista Iberoamericana de Informática y Automática Industrial. 9 - 1, pp. 14 - 23. 2012.
Type of production: Scientific paper **Format:** Journal
- 22** Pablo Millán Gata; Luis Orihuela Espina; Guillermo Bejarano Pellicer; Carlos Vivas Venegas; Teodoro Álamo Cantarero; Francisco Rodríguez Rubio. Design and Application of Suboptimal Mixed H2/H ∞ Controllers for Networked Control Systems. IEEE Transactions on Control Systems Technology. 20 - 4, pp. 1057 - 1065. 2012.
Type of production: Scientific paper **Format:** Journal
- 23** Pablo Millán Gata; Luis Orihuela Espina; Carlos Vivas Venegas; Francisco Rodríguez Rubio. Distributed Consensus-Based Estimation Considering Network Induced Delays and Dropouts. Automatica. 48 - 10, pp. 2726 - 2729. 2012.
Type of production: Scientific paper **Format:** Journal
- 24** Luis Orihuela Espina; Pablo Millán Gata; Carlos Vivas Venegas; Francisco Rodríguez Rubio. Robust Stability of Nonlinear Time-Delay Systems with Interval Time-Varying Delay. International Journal of Robust and Nonlinear Control. 21 - 7, pp. 709 - 724. 2011.
Type of production: Scientific paper **Format:** Journal
- 25** Alejandro Tapia Córdoba; Daniel Gutiérrez Reina; Álvaro Rodríguez del Nozal; Pablo Millán Gata. Application of Genetic Algorithms for Designing Micro-Hydro Power Plants in Rural Isolated Areas - a case study in San Miguelito, Honduras. Nature Inspired Computing for Data Science. pp. 169 - 200. Springer, 2020.
Type of production: Book chapter **Format:** Book
- 26** Pablo Millán Gata; Luis Orihuela Espina; Isabel Jurado Flores. Delays in distributed estimation and control over communication networks. Delays and networked control systems. 6, pp. 199 - 216. Springer, 2016.
Type of production: Book chapter **Format:** Book
- 27** Isabel Jurado Flores; Pablo Millán Gata. Asynchronous Packetized Model Predictive Control. Asynchronous Control for Networked Systems. 6, pp. 133 - 145. Springer, 2015.
Type of production: Book chapter **Format:** Book



- 28** María Guinaldo; Pablo Millán Gata; Luis Orihuela Espina. Conclusions. Asynchronous Control for Networked Systems. 13, pp. 289 - 292. Springer, 2015.
Type of production: Book chapter **Format:** Book
- 29** Pablo Millán Gata; Carlos Vivas Venegas; Carlo Fischione. Distributed event-based observers for LTI systems. Asynchronous Control for Networked Control Systems. 8, pp. 181 - 191. Springer, 2015.
Type of production: Book chapter **Format:** Book
- 30** María Guinaldo; Francisco Rodríguez Rubio; Sebastián Dormido Bencomo; Pablo Millán Gata; Carlos Vivas Venegas; Luis Orihuela Espina. Introduction. Asynchronous Control for Networked Systems. 1, pp. 1 - 26. Springer, 2015.
Type of production: Book chapter **Format:** Book
- 31** Luis Orihuela Espina; Pablo Millán Gata; David Muñoz de la Peña. Self-triggered sampling selection based on quadratic programming. Asynchronous Control for Networked Control Systems. 3, pp. 63 - 77. Springer-Verlag, 2015.
Type of production: Book chapter **Format:** Book
- 32** Carlos Vivas Venegas; Luis Orihuela Espina; Pablo Millán Gata; Francisco Rodríguez Rubio; Peter Hokayem; John Lygeros; Saikat Chatterjee; Dennis Sundman; Mikko Vehkaperä; Mikael Skoglund. Control Subject to Networking Constraints. Control Subject to Networking Constraints. pp. 1 - 114. 01/09/2008.
Type of production: Scientific-technical report **Format:** Scientific and technical document or report
- 33** J. Jimenez; M. Lopez; Pablo Millán Gata; Luis Orihuela Espina; Amalia Luque Sendra; Carlos Vivas Venegas; Daviz Muñoz de la Peña Sequedo; Francisco Rodríguez Rubio; Carlo Fischione; T. Oechtering; Luca Schenato; A. Cedese; Damiano Varagnolo; P. Donaggio; G. Gennari; P. Smyth; J. Czyz; J. Opderbecke; J. Dumon; Daniel Simon. Integrated Tool Set, Software and Documentation. Integrated Tool Set, Software and Documentation. pp. 1 - 76. 01/09/2008.
Type of production: Scientific-technical report **Format:** Scientific and technical document or report

Works submitted to national or international conferences

- 1** **Title of the work:** Technologies for resilient energy-aware cyber-physical systems of systems with human intervention
Name of the conference: 1st International Conference ICT 2020
City of event: Sevilla, Spain
Date of event: 20/01/2020
End date: 22/01/2020
Organising entity: Universidad Loyola Andalucía
Luis Orihuela Espina; Pablo Millán Gata.
- 2** **Title of the work:** Estimación distribuida de sistemas LTI basada en confianza
Name of the conference: XL Jornadas de Automática
City of event: Ferrol, Galicia, Spain
Date of event: 04/09/2019
End date: 06/09/2019
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Álvaro Rodríguez del Nozal; Luis Orihuela Espina; Pablo Millán Gata. "Estimación distribuida de sistemas LTI basada en confianza".



- 3** **Title of the work:** Design, building and characterization of a test bench to study control strategies of micro-hydro power plants in remote areas
Name of the conference: IV Congreso Internacional de Estudios del Desarrollo
City of event: Córdoba, Andalusia, Spain
Date of event: 12/12/2018
End date: 14/12/2018
Organising entity: Universidad Loyola Andalucía
City organizing entity: Córdoba, Andalusia, Spain
Alejandro Tapia; Pablo Millán; Fabio Gómez-Estern. "Design, building and characterization of a test bench to study control strategies of micro-hydro power plants in remote areas".
- 4** **Title of the work:** On the use of optimization algorithms to develop micro-hydro power plants to remote, isolated communities
Name of the conference: IV Congreso Internacional de Estudios del Desarrollo
City of event: Córdoba, Andalusia, Spain
Date of event: 12/12/2018
End date: 14/12/2018
Organising entity: Universidad Loyola Andalucía
City organizing entity: Córdoba, Andalusia, Spain
Alejandro Tapia Córdoba; Pablo Millán; Fabio Gómez-Estern.
- 5** **Title of the work:** Implementación de Actuaciones de Éxito en Titulaciones de Grado y su Impacto en el Proceso de Enseñanza--Aprendizaje del Alumnado: Claves para su Implementación
Name of the conference: VII Congreso Internacional Multidisciplinar de Investigación Educativa LOG IN Search, CIMIE 2018
City of event: Zaragoza, Aragon, Spain
Date of event: 05/07/2018
End date: 06/07/2018
Organising entity: AMIE
Pilar Álvarez Cifuentes; Pilar Castro González; Pablo Millán Gata; Manuel López Casquete; Sandra Racionero Plaza.
- 6** **Title of the work:** A Game-Theoretic Framework for Distributed Voltage Regulation over HVDC grids
Name of the conference: European Control Conference (ECC 2018)
City of event: Limassol, Cyprus
Date of event: 12/06/2018
End date: 15/06/2018
Organising entity: International Federation of Automatic Control
Álvaro Rodríguez del Nozal; Luis Orihuela Espina; Pablo Millán Gata.
- 7** **Title of the work:** Diseño LQ e implementación distribuida para la estimación de estado
Name of the conference: XXXVIII Jornadas de Automática
City of event: Gijón, Principality of Asturias, Spain
Date of event: 06/09/2017
End date: 08/09/2017
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Álvaro Rodríguez del Nozal; Luis Orihuela Espina; Pablo Millán Gata; Carmelina Ierardi; Alejandro Tapia Córdoba. "Diseño LQ e implementación distribuida para la estimación de estado".
- 8** **Title of the work:** Modelado de micro-central hidráulica para el diseño de controladores con aplicación en regiones aisladas de Honduras
Name of the conference: XXXVIII Jornadas de Automática



City of event: Gijón, Principality of Asturias, Spain

Date of event: 06/09/2017

End date: 08/09/2017

Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC

Alejandro Tapia Córdoba; Fabio Gómez-Estern Aguilar; Pablo Millán Gata; Carmelina Ierardi; Álvaro Rodríguez del Nozal. "Modelado de micro-central hidráulica para el diseño de controladores con aplicación en regiones aisladas de Honduras".

9 Title of the work: Distributed Negotiation with a Class of Quadratic Cost Functions

Name of the conference: IFAC World Congress 2017

City of event: Toulouse, France

Date of event: 09/07/2017

End date: 14/07/2017

Organising entity: International Federation of Automatic Control

Luis Orihuela Espina; Pablo Millán Gata; Juan Francisco Carbonell Márquez.

10 Title of the work: Distributed consensus-based estimation considering subspace decomposition

Name of the conference: IFAC World Congress 2017

City of event: Toulouse, France

Date of event: 09/07/2017

End date: 14/07/2017

Álvaro Rodríguez del Nozal; Pablo Millán Gata; Luis Orihuela Espina; Luca Zaccarian; Alexandre Seuret.

11 Title of the work: Distributed implementation and design for state estimation

Name of the conference: IFAC World Congress 2017

City of event: Toulouse, France

Date of event: 09/07/2017

End date: 14/07/2017

Organising entity: International Federation of Automatic Control

Pablo Millán Gata; Álvaro Rodríguez del Nozal; Luca Zaccarian; Luis Orihuela Espina; Alexandre Seuret.

12 Title of the work: Nash equilibria and negotiation with quadratic cost functions

Name of the conference: 17th International Conference on Computational and Mathematical Methods in Science and Engineering

City of event: Cádiz, Spain

Date of event: 08/07/2017

End date: 14/07/2017

Pablo Millán Gata; Luis Orihuela Espina; Juan Francisco Carbonell Márquez.

13 Title of the work: Programación mixta-entera y fotogrametría para optimizar plantas micro-hidráulicas en zonas rurales remotas de honduras

Name of the conference: Congreso Universidad y Cooperación 2017

City of event: Madrid, Spain

Date of event: 29/03/2017

End date: 31/03/2017

Organising entity: Universidad Autónoma de Madrid **Type of entity:** University

Alejandra Tapia Córdoba; Pablo Millán Gata; Fabio Gómez-Estern Aguilar; Maria José Vázquez de Francisco; Michela Accerenzi.



- 14** **Title of the work:** Agent-based guaranteed estimation and control of nonlinear systems
Name of the conference: European Control Conference (ECC-15)
City of event: Linz, Austria
Date of event: 15/07/2015
End date: 17/07/2015
Organising entity: IEEE
Ramón García; Pablo Millán Gata; Luis Orihuela Espina; Francisco Rodríguez Rubio; Manuel Gil Ortega. "An asynchronous technique for distributed estimation based on zonotopes".
- 15** **Title of the work:** An asynchronous technique for distributed estimation based on zonotopes
Name of the conference: First IEEE International Conference on Event-Based Control, Communication and Signal Processing (EBCCSP)
City of event: Krakov, Poland
Date of event: 16/06/2015
End date: 19/06/2015
Ramón García; Francisco Rodríguez Rubio; María Guinaldo; Luis Orihuela Espina; Pablo Millán Gata. "An asynchronous technique for distributed estimation based on zonotopes".
- 16** **Title of the work:** Guaranteed Estimation for Distributed Networked Control Systems
Name of the conference: Control 2014
City of event: Oporto, Portugal
Date of event: 21/07/2014
End date: 23/07/2014
Organising entity: Institute for Systems and Computer Engineering of Porto
Ramón García; Luis Orihuela Espina; Pablo Millán Gata; Manuel Gil Ortega; Francisco Rodríguez Rubio. "Guaranteed Estimation for Distributed Networked Control Systems".
- 17** **Title of the work:** Improved H2/Hinf Control Design for Time Delay Systems: Synthesis and Analysis
Name of the conference: European Control Conference 2014
City of event: STRASBOURG, France
Date of event: 24/06/2014
End date: 26/06/2014
Organising entity: International Federation of Automatic Control
Type of entity: Associations and Groups
Luis Orihuela Espina; Pablo Millán Gata; Carlos Vivas Venegas; Francisco Rodríguez Rubio. "Improved H2/Hinf Control Design for Time Delay Systems: Synthesis and Analysis".
- 18** **Title of the work:** Distributed Event-Based Observers for LTI Networked Systems
Name of the conference: 10th Conference on Automatic Control (Control 2012)
City of event: Funchal, Portugal
Date of event: 16/07/2012
Organising entity: University of Madeira
Type of entity: University
City organizing entity: Funchal, Portugal
Pablo Millán Gata; Ubaldo Tiberi; Carlo Fischione; Dimos V. Dimarogonas; Karl H. Johansson; Francisco Rodríguez Rubio. "Distributed Event-Based Observers for LTI Networked Systems".
- 19** **Title of the work:** Control y Observación Distribuida en Distemas de Control a Través de Redes
Name of the conference: XXXII Jornadas de Automática
City of event: Sevilla, Andalusia, Spain
Date of event: 09/2011
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC



Luis Orihuela Espina; Pablo Millán Gata; Carlos Vivas Venegas; Francisco Rodríguez Rubio. "Control y Observación Distribuida en Distemas de Control a Través de Redes".

- 20** **Title of the work:** Self-Triggered Sampling Selection Based on Quadratic Programming
Name of the conference: 18th IFAC World Congress
City of event: Milano, Italy
Date of event: 08/2011
Organising entity: IFAC
Pablo Millán Gata; Luis Orihuela Espina; David Muñoz de la Peña Sequedo; Carlos Vivas Venegas; Francisco Rodríguez Rubio. "Self-Triggered Sampling Selection Based on Quadratic Programming".
- 21** **Title of the work:** Optimal Networked Control of a 2 Degree-of-Freedom Direct Drive Robot Manipulator
Name of the conference: 15th IEEE International Conference on Emerging Technologies and Factory Automation
City of event: Bilbao, Basque Country, Spain
Date of event: 09/2010
Organising entity: IEEE
Luis Orihuela Espina; Pablo Millán Gata; Carlos Vivas Venegas; Francisco Rodríguez Rubio. "Optimal Networked Control of a 2 Degree-of-Freedom Direct Drive Robot Manipulator".
- 22** **Title of the work:** An Optimal Control L2-Gain Disturbance Rejection Design for Networked Control Systems
Name of the conference: American Control Conference
City of event: Balimore, United States of America
Date of event: 06/2010
Organising entity: American Automatic Control Council
Pablo Millán Gata; Luis Orihuela Espina; Carlos Vivas Venegas; Francisco Rodríguez Rubio. "An Optimal Control L2-Gain Disturbance Rejection Design for Networked Control Systems".
- 23** **Title of the work:** Delay-Dependent Robust Stability Analysis for Systems with Interval Delays
Name of the conference: American Control Conference
City of event: Balimore, United States of America
Date of event: 06/2010
Organising entity: American Automatic Control Council
Luis Orihuela Espina; Pablo Millán Gata; Carlos Vivas Venegas; Francisco Rodríguez Rubio. "Delay-Dependent Robust Stability Analysis for Systems with Interval Delays".
- 24** **Title of the work:** Control Óptimo de Sistemas de Control a Través de Redes mediante Funcionales de Lyapunov-Krasovskii
Name of the conference: XXX Jornadas de Automática
City of event: Valladolid, Castile and León, Spain
Date of event: 09/2009
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Pablo Millán Gata; Luis Orihuela Espina; Carlos Vivas Venegas; Francisco Rodríguez Rubio. "Control Óptimo de Sistemas de Control a Través de Redes mediante Funcionales de Lyapunov-Krasovskii".
- 25** **Title of the work:** Improved Delay-Dependent Stability for Uncertain Networked Control Systems with Induced Time-Varying Delays
Name of the conference: 1st IFAC Workshop on Estimation and Control of Networked Systems
City of event: Venice, Italy
Date of event: 09/2009
Organising entity: IFAC



Pablo Millán Gata; Luis Orihuela Espina; Carlos Vivas Venegas; Francisco Rodríguez Rubio. "Improved Delay-Dependent Stability for Uncertain Networked Control Systems with Induced Time-Varying Delays".

- 26** **Title of the work:** Application of Network-Based Robust Control to a Personal Pendulum Vehicle
Name of the conference: European Control Conference
City of event: Budapest, Hungary
Date of event: 23/08/2009
Organising entity: European Union Control Association
City organizing entity: Budapest, Hungary
Javier Arriaga; Pablo Millán Gata; Isabel Jurado Flores; Carlos Vivas Venegas; Francisco Rodríguez Rubio. "Application of Network-Based Robust Control to a Personal Pendulum Vehicle".
- 27** **Title of the work:** Networked Predictive Control of Systems with Data Dropouts
Name of the conference: Conference on Decision and Control
City of event: Cancun, Mexico
Date of event: 09/12/2008
Organising entity: Institute of Electrical and Electronic Engineers IEEE
Pablo Millán Gata; Isabel Jurado Flores; Carlos Vivas Venegas; Francisco Rodríguez Rubio. "Networked Predictive Control of Systems with Data Dropouts".
- 28** **Title of the work:** An Algorithm to Compensate for Large Data Dropouts in Networked Control Systems
Name of the conference: 13th International Conference on Emerging Technologies and Factory Automation (ETFA)
City of event: Hamburgo, Germany
Date of event: 15/09/2008
Organising entity: Institute of Electrical and Electronic Engineers IEEE
Pablo Millán Gata; Isabel Jurado Flores; Carlos Vivas Venegas; Francisco Rodríguez Rubio. "An Algorithm to Compensate for Large Data Dropouts in Networked Control Systems".
- 29** **Title of the work:** Estudio Comparativo de Diferentes Técnicas de Cuantificación
Name of the conference: XXIX JORNADAS DE AUTOMATICA
City of event: Tarragona, Catalonia, Spain
Date of event: 03/09/2008
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Pablo Millán Gata; Isabel Jurado Flores; Manuel Gil Ortega Linares; Francisco Rodríguez Rubio. "Estudio Comparativo de Diferentes Técnicas de Cuantificación".
- 30** **Title of the work:** Técnicas de Control a Través de Red Inalámbrica de un Vehículo Basado en Péndulo Invertido
Name of the conference: XXIX Jornadas de Automática
City of event: Tarragona, Catalonia, Spain
Date of event: 03/09/2008
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Javier Arriaga; Pablo Millán Gata; Isabel Jurado Flores; Carlos Vivas Venegas; Francisco Rodríguez Rubio. "Técnicas de Control a Través de Red Inalámbrica de un Vehículo Basado en Péndulo Invertido".
- 31** **Title of the work:** Modelado y Control de una Instalación para Ensayos de Sistemas de Intercambio de Presión
Name of the conference: XXVII Jornadas de Automática
City of event: Tarragona, Catalonia, Spain
Date of event: 05/09/2007
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC



Pablo Millán Gata; Isabel Jurado Flores; Carlos Vivas Venegas; Francisco Rodríguez Rubio. "Modelado y Control de una Instalación para Ensayos de Sistemas de Intercambio de Presión".

- 32** **Title of the work:** Stochastic Packetized Model Predictive Control for Networked Control Systems Subjects to Time-Delays and Dropouts
Name of the conference: 20th International Symposium on Mathematical Theory of Networks and Systems
City of event: Newcastle, Australia
Organising entity: University of Melbourne **Type of entity:** University
City organizing entity: Melbourne, Australia
Isabel Jurado Flores; Daniel Quevedo; Pablo Millán Gata; Francisco Rodríguez Rubio. "Stochastic Packetized Model Predictive Control for Networked Control Systems Subjects to Time-Delays and Dropouts".

Other dissemination activities

- 1** **Title of the work:** Distributed Estimation Techniques for Networked Systems
City of event: Toulouse, France
Date of event: 30/11/2016
Organising entity: LAAS-CNRS
- 2** **Title of the work:** Distributed Estimation and Control over Communication Networks
City of event: Milwaukee, United States of America
Date of event: 29/09/2015
Organising entity: Marquette University
- 3** **Title of the work:** Distributed Estimation and Control over Communication Networks
Name of the event: International Workshop on Networked Control Systems
Type of event: Conferences given
City of event: Toulouse, France
Date of event: 20/11/2013
Organising entity: GDRI DelSys. The French National Center for Scientific Research.
- 4** **Title of the work:** Advanced Techniques for Networked Control Systems
Name of the event: International Conference on Numerical Mathematics for Challenging Problems (NUMACH)
City of event: Sevilla, 26/06/2013, Spain
Date of event: 26/06/2013
Organising entity: Universidad Loyola Andalucía y Abengoa Research
- 5** **Title of the work:** On Stability Analysis and Control Design for y Systems based on the Lyapunov-Krasovskii Approach
Name of the event: International Workshop on Low-Order Controllers
Type of event: Conferences given
City of event: Paris, France
Date of event: 20/11/2012
Organising entity: International Group of Research on Time-Delay Systems (GDRI DELSYS) funded by the French CNRS
Pablo Millán Gata. "Seminario internacional para profesores de distintas nacionalidades, principalmente europeas. El objetivo es actualizarse en temas relacionados con el diseño de controladores de bajo orden."



- 6** **Title of the work:** Control Óptimo basado en Red mediante Funcionales de Lyapunov-Krasovskii
Name of the event: Reunión Anual del Grupo de Ingeniería de Control de CEA-IFAC
Type of event: Conferences given
City of event: Almería, 20/09/2010, Spain
Date of event: 20/09/2010
Organising entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
Pablo Millán Gata. "Seminario orientado a la difusión de los fundamentos, técnicas y aplicaciones de los funcionales de Lyapunov-Krasovskii para el control óptimo de sistemas con retrasos. Se pone especial énfasis a la aplicación de esta técnica para el control de sistemas basado en red, uno de los campos de investigación y desarrollo más prometedores actualmente dentro de la ingeniería de control."
- 7** **Title of the work:** Lyapunov-Krasovskii Functionals for the Study of Stability and Stabilization of Time-Delay Systems with Applications to Networked Control Systems
Name of the event: Junior Workshop in parallel with Necsyst'09 Conference
Type of event: Conferences given
City of event: Annecy, France
Date of event: 15/09/2010
Organising entity: Consorcio Feednetback del 7º Programa Marco de la Unión Europea
Pablo Millán Gata. "Formar en el uso y las bases de los funcionales de Lyapunov-Krasovskii para el análisis de sistemas dinámicos con retrasos, de gran importancia dentro de la ingeniería de control".

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Special Expert Group of the Resilient Project (7th Framework Programme)
Start-End date: 2013 - 2016
- 2** **Committee title:** Vocal del Consejo Asesor de IFAPA
Affiliation entity: Junta de Andalucía **Type of entity:** Public Research Body
Start date: 23/07/2019
- 3** **Committee title:** Consejo de Redacción de la Revista Fomento Social
Affiliation entity: Universidad Loyola Andalucía
Start date: 20/05/2019

Organization of R&D activities

- 1** **Title of the activity:** IV Congreso Internacional de Estudios de Desarrollo
Type of activity: Vocal del Comité Científico
Convening entity: Red Española de Estudios de Desarrollo
Start-End date: 12/12/2018 - 14/12/2018
- 2** **Title of the activity:** Jornadas de Automática de Sevilla
Type of activity: Jornadas Científicas **Geographical area:** National
Convening entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
City convening entity: Sevilla, Andalusia, Spain
Start date: 07/09/2012 **Duration:** 3 days



R&D management

- 1 Name of the activity:** Gestión del Proyecto INNOREGA: riego sostenible basado en monitorización distribuida e inteligencia Artificial
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal U. Loyola
Entity: Universidad Loyola Andalucía
Start date: 10/04/2019 **Duration:** 3 years
- 2 Name of the activity:** Gestión Proyecto: Sistema de monitorización de agentes contaminantes en el lago Ypacaraí mediante el uso de Vehículos Acuáticos no Tripulados de Superficie
Type of management: Management of R&D&I actions and projects
Performed tasks: co-IP Universidad Loyola Andalucía
Entity: Universidad Loyola Andalucía
Start date: 2019 **Duration:** 2 years
- 3 Name of the activity:** Gestión del Proyecto Aplicación de Sistemas de Microhidrocentrales Mejoradas en Comunicadas Remotas de Honduras
Type of management: Management of R&D&I actions and projects
Performed tasks: Project Manager (parte técnica)
Entity: Fundación ETEA, Universidad Loyola Andalucía, Fundación Hondureña de Investigación Agrícola
Start date: 2015 **Duration:** 1 year - 6 months

Evaluation and revision of R&D projects and articles

- 1 Performed tasks:** Reviewer
Entity where activity was carried out: Automatica
- 2 Performed tasks:** Reviewer
Entity where activity was carried out: IEEE Transactions on Automatic Control
- 3 Performed tasks:** Reviewer
Entity where activity was carried out: International Journal of Systems Science

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Laboratoire d'Analyse et d'Architecture des Systèmes
City of entity: Toulouse, France
Start-End date: 01/06/2018 - 13/07/2018 **Duration:** 1 month - 14 days
Goals of the stay: Post-doctoral

- 2** **Entity:** Coventry University
City of entity: Coventry, United Kingdom
Start-End date: 30/10/2017 - 03/11/2017 **Duration:** 5 days
Goals of the stay: Post-doctoral

- 3** **Entity:** Laboratoire d'analyse et d'architecture des systemes **Type of entity:** Public Research Body
Faculty, institute or centre: CNRS
City of entity: Toulouse, France
Start-End date: 28/11/2016 - 02/12/2016 **Duration:** 5 days
Goals of the stay: Post-doctoral
Provable tasks: Publicación paper IFAC

- 4** **Entity:** Humanoid Engineering & Intelligent Robotics Lab **Type of entity:** University
Faculty, institute or centre: College of Engineering, Marquette University
City of entity: Milwaukee, United States of America
Start-End date: 24/08/2015 - 04/10/2015 **Duration:** 1 month - 12 days
Goals of the stay: Post-doctoral

- 5** **Entity:** Laboratoire d'analyse et d'architecture des systemes **Type of entity:** Public Research Body
Faculty, institute or centre: CNRS
City of entity: Toulouse, France
Start-End date: 15/06/2015 - 28/06/2015 **Duration:** 14 days
Goals of the stay: Post-doctoral

- 6** **Entity:** Royal Institute of Technology (KTH)
City of entity: Estocolmo, Sweden
Start-End date: 18/08/2014 - 22/08/2014 **Duration:** 5 days
Goals of the stay: Post-doctoral
Provable tasks: Conferencia y visita a los laboratorios de transporte, HVAC y movilidad

- 7** **Entity:** University of Newcastle
Faculty, institute or centre: School of Electrical Engineering.
City of entity: Newcastle, Australia
Start date: 15/01/2012 **Duration:** 1 month
Goals of the stay: Guest
Provable tasks: Publicaciones científicas



- 8** **Entity:** Royal Institute of Technology
Faculty, institute or centre: School of Electrical Engineering
City of entity: Estocolmo, Sweden
Start date: 20/05/2011 **Duration:** 6 months
Goals of the stay: Guest
Provable tasks: Publicaciones científicas

Obtained grants and scholarships

- 1** **Name of the grant:** Programa de Formación del Profesorado Universitario (FPU)
Aims: Pre-doctoral
Awarding entity: Ministerio de Educación
Conferral date: 05/07/2008 **Duration:** 4 years
End date: 15/07/2012
- 2** **Name of the grant:** Beca de Colaboración
Aims: Pre-doctoral
Awarding entity: Ministerio de Educación y Ciencia
Conferral date: 30/11/2006 **Duration:** 1 year
End date: 29/11/2007
- 3** **Name of the grant:** Torres Quevedo
Aims: Post-doctoral
Awarding entity: Ministerio de Ciencia e Innovación. **Type of entity:** Ministerio Investigación
Conferral date: 2013

Prizes, mentions and distinctions

- 1** **Description:** Diploma en reconocimiento a la labor investigadora
Awarding entity: Universidad Loyola Andalucía **Type of entity:** University
City awarding entity: Córdoba, Andalusia, Spain
Conferral date: 28/01/2017
- 2** **Description:** Premio Ayuntamiento de Sevilla a la Mejor Tesis Doctoral
Awarding entity: Ayuntamiento de Sevilla
City awarding entity: Sevilla, Andalusia, Spain
Conferral date: 08/11/2013
- 3** **Description:** Premio Extraordinario de Doctorado de la Universidad de Sevilla
Awarding entity: Universidad de Sevilla
City awarding entity: Sevilla, Andalusia, Spain
Conferral date: 2013
- 4** **Description:** Cumlaude por Unanimidad en la Tesis Doctoral
Conferral date: 2012



- 5** **Description:** Nominación a mejor paper de un estudiante en el 10º Congreso Portugués de Control Automático
Conferral date: 2012
- 6** **Description:** Mejor Trabajo en Ingeniería de Control en las Jornadas de Automática
Awarding entity: ADDLINK SOFTWARE CIENTIFICO, S.L.
Conferral date: 2009
- 7** **Description:** Mejor Trabajo en Ingeniería de Control en las Jornadas de Automática
Awarding entity: ADDLINK SOFTWARE CIENTIFICO, S.L.
Conferral date: 2008
- 8** **Description:** Matrícula de Honor Global en Bachillerato
Awarding entity: IES Híspalis
Conferral date: 2003

Periods of research activity

Nº of recognized periods: 1

Certifying entity: CNEAI

Date of recognition: 2015

Type of entity: State agency

Obtained accreditations/recognitions

- 1** **Description:** Profesor Titular de Universidad
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación
Date of recognition: 22/05/2018
Type of entity: ANECA
- 2** **Description:** Profesor Contratado Doctor
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación
Date of recognition: 2015
Type of entity: Agencia Pública Estatal
- 3** **Description:** Profesor de Universidad Privada
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación
Date of recognition: 2015
Type of entity: Agencia Pública Estatal
- 4** **Description:** Profesor Ayudante Doctor
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación
Date of recognition: 2013
Type of entity: Agencia Pública Estatal