



Jaime del Cerro Giner

Generated from: Universidad Politécnica de Madrid

Date of document: 20/02/2021

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**Jaime del Cerro Giner**

Surname(s): Cerro Giner
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Date of birth: 15/01/1970
Sex: Man
Nationality: Spain
Country of birth: Spain
Autonomous Community /Region of birth: Madrid
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Autonomous Community /Contact region:
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Current professional situation only if working (not if unemployed)

Name of the entity: Universidad Politécnica de Madrid **Type of body:** University
Category / Title of position or responsibility: Profesor Contratado Doctor **Educational management:** Yes
City of job: Madrid, Community of Madrid, Spain
Start date: 01/09/2020
Modality of the contract: Permanent employment contract **Type of dedication:** Full time

Name of the entity: Universidad Politécnica de Madrid **Type of body:** University
Category / Title of position or responsibility: Adjunto Dirección Escuela Técnica Superior para Mejora de la Docencia **Educational management:** No
City of job: Madrid, Community of Madrid, Spain
Start date: 23/04/2018
Modality of the contract: Otros **Type of dedication:** Full time

Positions held before current job

	Name of the entity	Category / position or responsibility	Start date
1	Universidad Politécnica de Madrid	Profesor Ayudante Doctor	01/09/2016

	Name of the entity	Category / position or responsibility	Start date
2	Universidad Internacional de La Rioja (UNIR)	Profesor Adjunto	08/09/2014
3	Universidad Europea de Madrid	Profesor Colaborador	01/09/2010
4	Universidad Politécnica de Madrid	Personal Laboral Universidad Politécnica de Madrid	01/02/1999
5	Universidad Politécnica de Madrid	Personal Laboral Universidad Politécnica de Madrid	16/03/1992
6	Universidad Politécnica de Madrid	Contratado Duracion Determinada Universidad Politécnica de Madrid	01/02/1990

- 1** **Name of the entity:** Universidad Politécnica de Madrid **Type of body:** University
City of job: Madrid, Community of Madrid, Spain
Category / position or responsibility: Profesor Ayudante Doctor **Teaching Management:** Yes
Start date: 01/09/2016 **Duration:** 4 years
Type of dedication: Full time
- 2** **Name of the entity:** Universidad Internacional de La Rioja (UNIR) **Type of body:** University
City of job: Logroño, La Rioja, Spain
Category / position or responsibility: Profesor Adjunto **Teaching Management:** Yes
Start date: 08/09/2014 **Duration:** 2 years
Type of dedication: Part time
Professional activity: Master en Diseño y Gestión de Proyectos Tecnológicos.
- 3** **Name of the entity:** Universidad Europea de Madrid **Type of body:** University
City of job: Villaviciosa De Odon, Community of Madrid, Spain
Category / position or responsibility: Profesor Colaborador **Teaching Management:** Yes
Start date: 01/09/2010 **Duration:** 2 years
Type of dedication: Part time
- 4** **Name of the entity:** Universidad Politécnica de Madrid **Type of body:** University
City of job: Madrid, Community of Madrid, Spain
Category / position or responsibility: Personal Laboral Universidad Politécnica de Madrid **Teaching Management:** No
Start date: 01/02/1999 **Duration:** 5 years - 6 months
Type of dedication: Full time
- 5** **Name of the entity:** Universidad Politécnica de Madrid **Type of body:** University
City of job: Madrid, Community of Madrid, Spain
Category / position or responsibility: Personal Laboral Universidad Politécnica de Madrid **Teaching Management:** No
Start date: 16/03/1992 **Duration:** 6 years - 10 months
Type of dedication: Full time



6 **Name of the entity:** Universidad Politécnica de Madrid

City of job: Madrid, Community of Madrid, Spain

Category / position or responsibility:
Contratado Duracion Determinada Universidad Politécnica de Madrid

Start date: 01/02/1990

Type of dedication: Full time

Type of body: University

Teaching Management: No

Duration: 2 years - 1 month



Training received

University education

Diplomas, degrees and engineering degrees

- 1 Official University Qualification:** Higher degree
Name of qualification: Ingeniero Industrial
City of qualification: Madrid, Community of Madrid, Spain
Entity issuing the qualification: Universidad Politécnica de Madrid
Type of body: University
Date of qualification: 07/11/1996
- 2 Official University Qualification:** Higher degree
Name of qualification: Ingeniero Técnico en Electricidad
City of qualification: Madrid, Community of Madrid, Spain
Entity issuing the qualification: Universidad Pontificia Comillas
Type of body: University
Date of qualification: 08/09/1991

Doctorates

Doctorate: Doctor Ingeniero Industrial
University issuing the title: Universidad Politécnica de Madrid
Type of body: University
City of qualification: Madrid, Community of Madrid, Spain
Date of qualification: 30/11/2007
Thesis title: Arquitectura abierta para el control autónomo y teleoperado de un minihelicóptero
Director of thesis: Antonio Barrientos Cruz
Mark: Sobresaliente Cum Laude Por Unanimidad

Specialist, ongoing, technical, professional training (other than formal academic and healthcare training)

- 1 Type of Training:** Course
Title of the specific: Revisión de la originalidad (Antiplagio) en trabajos académicos entregados en Moodle.
City: Madrid, Community of Madrid, Spain
Entity issuing the qualification: ICE-UPM Instituto de Ciencias de la Educación
Type of body: University Centres and Structures and Associated Bodies
Date of end of training: 24/01/2020
Duration in Hours: 2 hours
- 2 Type of Training:** Course
Title of the specific: Creación de recursos educativos interactivos para el aula y entornos virtuales de aprendizaje.
City: Madrid, Community of Madrid, Spain



Entity issuing the qualification: ICE-UPM Instituto de Ciencias de la Educación **Type of body:** University
Date of end of training: 22/05/2018 **Duration in Hours:** 4 hours

3 Type of Training: Course
Title of the specific: Introducción al lenguaje de programación Python
City: Madrid, Community of Madrid, Spain
Entity issuing the qualification: ICE-UPM Instituto de Ciencias de la Educación **Type of body:** University
Date of end of training: 31/01/2018 **Duration in Hours:** 8 hours

4 Type of Training: Course
Title of the specific: Trabajo colaborativo en Moodle
City: Extra-Regio, Spain
Entity issuing the qualification: ICE-UPM Instituto de Ciencias de la Educación **Type of body:** University
Objectives of the body: ICE-UPM Instituto de Ciencias de la Educación
Date of end of training: 18/01/2018 **Duration in Hours:** 3 hours

5 Type of Training: Course
Title of the specific: ¿Cómo enseñan los mejores profesores universitarios?
City: Madrid, Community of Madrid, Spain
Entity issuing the qualification: ICE-UPM Instituto de Ciencias de la Educación **Type of body:** University Centres and Structures and Associated Bodies
Date of end of training: 18/01/2018 **Duration in Hours:** 9 hours

6 Type of Training: Course
Title of the specific: Gestión de las ayudas I+D: proyectos financiados por convocatorias públicas competitivas europeas.
City: Madrid, Community of Madrid, Spain
Entity issuing the qualification: ICE-UPM Instituto de Ciencias de la Educación **Type of body:** University
Date of end of training: 07/02/2017 **Duration in Hours:** 5 hours

7 Type of Training: Course
Title of the specific: Gestión de calificaciones en Moodle
City: Madrid, Otros, Spain
Entity issuing the qualification: ICE-UPM Instituto de Ciencias de la Educación **Type of body:** University
Date of end of training: 25/01/2017 **Duration in Hours:** 2 hours

8 Type of Training: Course
Title of the specific: Evaluación entre estudiantes en Moodle
City: Madrid, Otros, Spain
Entity issuing the qualification: ICE-UPM **Type of body:** University Research Institute
Date of end of training: 25/01/2017 **Duration in Hours:** 2 hours

9 Type of Training: Course
Title of the specific: Comunicación en Moodle
City: Madrid, Community of Madrid, Spain
Entity issuing the qualification: ICE-UPM Instituto de Ciencias de la Educación **Type of body:** University



Date of end of training: 17/01/2017

Duration in Hours: 3 hours

10 Type of Training: Course

Title of the specific: Gestión de grupos en Moodle

City: Madrid, Community of Madrid, Spain

Entity issuing the qualification: ICE-UPM Instituto de Ciencias de la Educación

Type of body: University

Date of end of training: 17/01/2017

Duration in Hours: 2 hours

11 Type of Training: Course

Title of the specific: Evaluación continua en Moodle

City: Madrid, Community of Madrid, Spain

Entity issuing the qualification: ICE-UPM Instituto de Ciencias de la Educación

Type of body: University

Date of end of training: 16/01/2017

Duration in Hours: 4 hours

12 Type of Training: Course

Title of the specific: Introducción a Moodle

City: Villaviciosa De Odon, Community of Madrid, Spain

Entity issuing the qualification: Universidad Europea de Madrid

Type of body: University

Date of end of training: 20/10/2011

Duration in Hours: 3 hours

13 Type of Training: Course

Title of the specific: Conclusiones de las sesiones del Think Tank

City: Villaviciosa De Odon, Community of Madrid, Spain

Entity issuing the qualification: Universidad Europea de Madrid

Type of body: University

Date of end of training: 30/07/2011

Duration in Hours: 2 hours

14 Type of Training: Course

Title of the specific: Cuestionarios en el campus virtual

City: Villaviciosa De Odon, Community of Madrid, Spain

Entity issuing the qualification: Universidad Europea de Madrid

Type of body: University

Date of end of training: 30/07/2011

Duration in Hours: 3 hours

15 Type of Training: Course

Title of the specific: Curso de Inmersión Docente

City: Villaviciosa De Odon, Community of Madrid, Spain

Entity issuing the qualification: Universidad Europea de Madrid

Type of body: University

Date of end of training: 30/07/2011

Duration in Hours: 25 hours

16 Type of Training: Course

Title of the specific: Curso General De Pizarras Digitales

City: Villaviciosa De Odon, Community of Madrid, Spain

Entity issuing the qualification: Universidad Europea de Madrid

Type of body: University

Date of end of training: 30/07/2011

Duration in Hours: 3 hours



- 17** **Type of Training:** Course
Title of the specific: Auditorias del SGIC
City: Villaviciosa De Odon, Community of Madrid, Spain
Entity issuing the qualification: Universidad Europea de Madrid
Type of body: University
Date of end of training: 30/07/2011
Duration in Hours: 3 hours
- 18** **Type of Training:** Course
Title of the specific: Seguridad Informática
City: Madrid, Community of Madrid, Spain
Entity issuing the qualification: Universidad Politécnica de Madrid
Type of body: University
Training manager: Juan B. Gómez San Segundo
Date of end of training: 20/02/2009
Duration in Hours: 30 hours
- 19** **Type of Training:** Course
Title of the specific: FLIGHT TRAINNING COURSE ON NEURAL ROBOTICS.
City: HUNTSVILLE, Otros, United States of America
Entity issuing the qualification: NEURAL ROBOTICS
Type of body: R&D Centre
Date of end of training: 20/10/2005
Duration in Hours: 40 hours
- 20** **Type of Training:** Course
Title of the specific: Automatas programables
City: Madrid, Otros, Spain
Entity issuing the qualification: OMRON ELECTRONICS, S.A.
Type of body: Business
Date of end of training: 13/02/2005
Duration in Hours: 24 hours
- 21** **Type of Training:** Course
Title of the specific: Nuevos Conceptos en sensores industriales
City: Getafe, Otros, Spain
Entity issuing the qualification: Schenider Electric
Type of body: Business
Date of end of training: 23/11/2004
Duration in Hours: 4 hours
- 22** **Type of Training:** Course
Title of the specific: CURSO DE AUDITORIES INTERNOS DE LABORATORIO
City: Madrid, Community of Madrid, Spain
Entity issuing the qualification: Fundacion para el Fomento de la Innovacion Industrial
Type of body: Technological Centre
Date of end of training: 13/05/2004
Duration in Hours: 22 hours
- 23** **Type of Training:** Course
Title of the specific: GESTION DE LA CALIDAD SEGUN LA NORMA ISO17025
City: Madrid, Community of Madrid, Spain
Entity issuing the qualification: Fundacion para el Fomento de la Innovacion Industrial
Type of body: Technological Centre
Date of end of training: 30/10/2003
Duration in Hours: 15 hours
- 24** **Type of Training:** Course
Title of the specific: RED LOCAL PROFIBUS/PROFIBUS DP CON SIMATIC S7
City: Extra-Regio, Spain



Entity issuing the qualification: SIEMENS
Date of end of training: 29/01/1999

Type of body: University
Duration in Hours: 24 hours

25 Type of Training: Course

Title of the specific: SIMATIC S7
City: Tres Cantos, Otros, Spain
Entity issuing the qualification: SIEMENS
Date of end of training: 14/01/1999

Type of body: Business
Duration in Hours: 24 hours

26 Type of Training: Course

Title of the specific: Intensive course on Inertial navigation Systems, GPS and integration
City: Paris, Île de France, France
Entity issuing the qualification: Technalytics
Objectives of the body: Curso intensivo de sistemas de navegación por satélite, navegación inercial e integración.
Training manager: Dr. Sam C. Bosse
Date of end of training: 10/05/1998

Type of body: Business
Duration in Hours: 40 hours

27 Type of Training: Course

Title of the specific: CURSO BASIDO DE DISEÑO Y PROGRAMACION CON APT
City: Tres Cantos, Otros, Spain
Entity issuing the qualification: SIEMENS
Date of end of training: 26/02/1992

Type of body: Business
Duration in Hours: 8 hours

28 Type of Training: Course

Title of the specific: PROGRAMACIÓN SIMATIC
City: Tres Cantos, Otros, Spain
Entity issuing the qualification: SIEMENS
Date of end of training: 23/02/1990

Type of body: Business
Duration in Hours: 25 hours

Courses and seminars taken in advanced teacher training, teaching skills, new technologies, intended to improve teaching skills

1 Title of course/seminar: ACCION TUTORIAL EN LA UNIVERSIDAD EUROPEA DE MADRID

Goal of course/seminar: DERECHOS Y OBLIGACIONES DEL PROFESOR Y ALUMNO AUTORIZADO. PLAN DE ACCION TUTORIAL EN LA UNIVERSIDAD EUROPEA DE MADRID. ACCION DEL TUTOR, COACHING.
City: Villaviciosa De Odon, Community of Madrid, Spain
Organising body: Universidad Europea de Madrid
End date: 23/03/2012

Type of body: University
Duration in Hours: 20 hours

2 Title of course/seminar: MARCO GENERAL DE UNA ASIGNATURA DE GRADO EN LA ESCUELA POLITECNICA- UEM

Goal of course/seminar: VISION GENERAL DE LAS ASIGNATURAS EN EL MARCO DE LA TITULACION. COMPETENCIAS TRASNVERSALES Y HORIZONTALES DE LAS ASIGNATURAS EN LOS PROGRAMAS DE GRADO
City: Villaviciosa De Odon, Community of Madrid, Spain
Organising body: Universidad Europea de Madrid
End date: 17/10/2011

Type of body: University
Duration in Hours: 2 hours



- 3** **Title of course/seminar:** CURSO GENERAL DE PIZARRAS DIGITALES
Goal of course/seminar: MANEJO Y UTILIZACION DE HERRAMIENTAS AVANZADAS DE LAS PIZARRAS DIGITALES
City: Extra-Regio, Spain
Organising body: Universidad Europea de Madrid **Type of body:** University
End date: 12/09/2011 **Duration in Hours:** 3 hours
- 4** **Title of course/seminar:** INTRODUCCION A MOODLE
Goal of course/seminar: PRESENTACION DE LA HERRAMIENTA Y MANEJO DE OPCIONES MAS HABITUALES
City: Villaviciosa De Odon, Community of Madrid, Spain
Organising body: Universidad Europea de Madrid **Type of body:** University
End date: 10/09/2010 **Duration in Hours:** 3 hours

Language skills

Language	Speech	Reading	Writing
English	Sufficient	Sufficient	Good

Teaching experience

Teaching work

- 1** **Type of teaching:** Official teaching
Name of subject/ name of course: Regulación automática
Type of programme: Engineering **Type of teaching:** In person theory
Type of subject: Obligatory
Title: Ingeniero Industrial
Course of the qualification taught: 2010-11
Hours/credits: Credits
Number of hours/credits: 4,5
Body where project took place: Universidad Europea de Madrid **Type of body:** University
Department: Electrónica, Automática, Informática Industrial y Comunicaciones
Language in which the subject is taught: Spanish
- 2** **Type of teaching:** Official teaching
Name of subject/ name of course: Regulación automática
Type of programme: Engineering **Type of teaching:** In person theory
Type of subject: Obligatory
Title: Ingeniero Industrial
Course of the qualification taught: 2011-12
Hours/credits: Credits
Number of hours/credits: 4,5
Body where project took place: Universidad Europea de Madrid **Type of body:** University
Department: Electrónica, Automática, Informática Industrial y Comunicaciones
Language in which the subject is taught: Spanish



- 3** **Type of teaching:** Official teaching
Name of subject/ name of course: Robotica
Type of programme: Others **Type of teaching:** Laboratory work
Type of subject: Obligatory
Title: GRADO EN INGENIERIA EN TECNICAS INDUSTRIALES
Course of the qualification taught: 2013-14
Hours/credits: Credits
Number of hours/credits: 6
Body where project took place: Universidad **Type of body:** University
Politécnica de Madrid
Department: Automatica, Ingenieria Electronica e Informatica Industrial
Assessing body: ETSII
Obtained qualification: 3.2 **Maximum possible qualification:** 5
Language in which the subject is taught: Spanish
- 4** **Type of teaching:** Official teaching
Name of subject/ name of course: Robotica
Type of programme: Others **Type of teaching:** Laboratory work
Type of subject: Obligatory
Title: GRADO EN INGENIERIA EN TECNICAS INDUSTRIALES
Course of the qualification taught: 2014-15
Hours/credits: Credits
Number of hours/credits: 6
Body where project took place: Universidad **Type of body:** University
Politécnica de Madrid
Department: Automatica, Ingenieria Electronica e Informatica Industrial
Assessing body: ETSII
Obtained qualification: 3.6 **Maximum possible qualification:** 5
Language in which the subject is taught: Spanish
- 5** **Type of teaching:** Official teaching
Name of subject/ name of course: Robotica
Type of programme: Others **Type of teaching:** Laboratory work
Type of subject: Obligatory
Title: GRADO EN INGENIERIA EN TECNICAS INDUSTRIALES
Course of the qualification taught: 2015-16
Hours/credits: Credits
Number of hours/credits: 6
Body where project took place: Universidad **Type of body:** University
Politécnica de Madrid
Department: Automatica, Ingenieria Electronica e Informatica Industrial
Assessing body: ETSII
Obtained qualification: 3.7 **Maximum possible qualification:** 5
Language in which the subject is taught: Spanish
- 6** **Type of teaching:** Official teaching
Name of subject/ name of course: Robotica
Type of programme: Others **Type of teaching:** Laboratory work
Type of subject: Obligatory
Title: GRADO EN INGENIERIA EN TECNICAS INDUSTRIALES



Course of the qualification taught: 2016-17

Hours/credits: Credits

Number of hours/credits: 6

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automatica, Ingenieria Electronica e Informatica Industrial

Assessing body: ETSII

Obtained qualification: 4

Maximum possible qualification: 5

Language in which the subject is taught: Spanish

7 Type of teaching: Official teaching

Name of subject/ name of course: Robotica

Type of programme: Others

Type of teaching: Laboratory work

Type of subject: Obligatory

Title: GRADO EN INGENIERIA EN TECNICAS INDUSTRIALES

Course of the qualification taught: 2017-18

Hours/credits: Credits

Number of hours/credits: 6

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automatica, Ingenieria Electronica e Informatica Industrial

Assessing body: ETSII

Obtained qualification: 4.2

Maximum possible qualification: 5

Language in which the subject is taught: Spanish

8 Type of teaching: Official teaching

Name of subject/ name of course: Robotica

Type of programme: Others

Type of teaching: Laboratory work

Type of subject: Obligatory

Title: GRADO EN INGENIERIA EN TECNICAS INDUSTRIALES

Course of the qualification taught: 2018-19

Hours/credits: Credits

Number of hours/credits: 6

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automatica, Ingenieria Electronica e Informatica Industrial

Assessing body: ETSII

Obtained qualification: 4.3

Maximum possible qualification: 5

Language in which the subject is taught: Spanish

9 Type of teaching: Official teaching

Name of subject/ name of course: Robotica

Type of programme: Others

Type of teaching: Laboratory work

Type of subject: Obligatory

Title: GRADO EN INGENIERIA EN TECNICAS INDUSTRIALES

Course of the qualification taught: 2019-20

Hours/credits: Credits

Number of hours/credits: 6

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automatica, Ingenieria Electronica e Informatica Industrial



Assessing body: Universidad Politécnica de Madrid
Obtained qualification: 9.04
Language in which the subject is taught: Spanish

Maximum possible qualification: 10

10 **Type of teaching:** Official teaching

Name of subject/ name of course: Robotica

Type of programme: Others

Type of teaching: Laboratory work

Type of subject: Obligatory

Title: GRADO EN INGENIERIA EN TECNICAS INDUSTRIALES

Course of the qualification taught: 2020-21

Hours/credits: Credits

Number of hours/credits: 6

Body where project took place: Universidad Politécnica de Madrid

Type of body: University

Department: Automatica, Ingenieria Electronica e Informatica Industrial

Assessing body: Universidad Politécnica de Madrid

Obtained qualification: 8.78

Maximum possible qualification: 10

Language in which the subject is taught: Spanish

11 **Type of teaching:** Official teaching

Name of subject/ name of course: Guiado, Navegacion Y Control De Robots Autonomos

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Doctorate

Title: Master en Automática y Robótica (VENIA DOCENDI)

Course of the qualification taught: 2013-14

Hours/credits: Credits

Number of hours/credits: 1

Body where project took place: Universidad Politécnica de Madrid

Type of body: University

Department: Automatica, Ingenieria Electronica e Informatica Industrial

Assessing body: ETSII

Obtained qualification: 3,7

Maximum possible qualification: 5

Language in which the subject is taught: Spanish

12 **Type of teaching:** Official teaching

Name of subject/ name of course: Guiado, Navegacion Y Control De Robots Autonomos

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Doctorate

Title: Master en Automática y Robótica (VENIA DOCENDI)

Course of the qualification taught: 2014-15

Hours/credits: Credits

Number of hours/credits: 1

Body where project took place: Universidad Politécnica de Madrid

Type of body: University

Department: Automatica, Ingenieria Electronica e Informatica Industrial

Assessing body: ETSII

Obtained qualification: 4.2

Maximum possible qualification: 5

Language in which the subject is taught: Spanish



- 13** **Type of teaching:** Official teaching
Name of subject/ name of course: Guiado, Navegacion Y Control De Robots Autonomos
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Doctorate
Title: Master en Automática y Robótica (VENIA DOCENDI)
Course of the qualification taught: 2015-16
Hours/credits: Credits
Number of hours/credits: 1
Body where project took place: Universidad Politécnica de Madrid **Type of body:** University
Department: Automatica, Ingenieria Electronica e Informatica Industrial
Assessing body: ETSII
Obtained qualification: 4 **Maximum possible qualification:** 5
Language in which the subject is taught: Spanish
- 14** **Type of teaching:** Official teaching
Name of subject/ name of course: Guiado, Navegacion Y Control De Robots Autonomos
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Doctorate
Title: Master en Automática y Robótica (VENIA DOCENDI)
Course of the qualification taught: 2016-17
Hours/credits: Credits
Number of hours/credits: 1
Body where project took place: Universidad Politécnica de Madrid **Type of body:** University
Department: Automatica, Ingenieria Electronica e Informatica Industrial
Assessing body: ETSII
Obtained qualification: 4.4 **Maximum possible qualification:** 5
Language in which the subject is taught: Spanish
- 15** **Type of teaching:** Official teaching
Name of subject/ name of course: Robots De Servicio
Type of programme: Master's degree **Type of teaching:** Others
Type of subject: Optional
Title: Master Universitario en Automática y Robótica (VENIA DOCENDI)
Course of the qualification taught: 2013-14
Hours/credits: Credits
Number of hours/credits: 1
Body where project took place: Universidad Politécnica de Madrid **Type of body:** University
Department: Automatica, Ingenieria Electronica e Informatica Industrial
Language in which the subject is taught: Spanish
- 16** **Type of teaching:** Official teaching
Name of subject/ name of course: Robots De Servicio
Type of programme: Master's degree **Type of teaching:** Others
Type of subject: Optional
Title: Master Universitario en Automática y Robótica (VENIA DOCENDI)
Course of the qualification taught: 2014-15
Hours/credits: Credits
Number of hours/credits: 1



Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automatica, Ingenieria Electronica e Informatica Industrial

Language in which the subject is taught: Spanish

17 Type of teaching: Official teaching

Name of subject/ name of course: Robots De Servicio

Type of programme: Master's degree

Type of teaching: Others

Type of subject: Optional

Title: Master Universitario en Automática y Robótica (VENIA DOCENDI)

Course of the qualification taught: 2016-17

Hours/credits: Credits

Number of hours/credits: 1

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automatica, Ingenieria Electronica e Informatica Industrial

Language in which the subject is taught: Spanish

18 Type of teaching: Official teaching

Name of subject/ name of course: Programación de Sistemas

Type of programme: Others

Type of teaching: Laboratory work

Type of subject: Obligatory

Title: Grado En Tecnologías Industriales

Course of the qualification taught: 2014-15

Hours/credits: Credits

Number of hours/credits: 6

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Adscripción temporal al centro

Assessing body: ETSII

Obtained qualification: 3.6

Maximum possible qualification: 5

Language in which the subject is taught: Spanish

19 Type of teaching: Official teaching

Name of subject/ name of course: Programación de Sistemas

Type of programme: Others

Type of teaching: Laboratory work

Type of subject: Obligatory

Title: Grado En Tecnologías Industriales

Course of the qualification taught: 2015-16

Hours/credits: Credits

Number of hours/credits: 6

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Adscripción temporal al centro

Assessing body: ETSII

Obtained qualification: 3,6

Maximum possible qualification: 5

Language in which the subject is taught: Spanish

20 Type of teaching: Official teaching

Name of subject/ name of course: Fundamentos De Automatica

Type of programme: Others

Type of teaching: In person theory



Type of subject: Obligatory

Title: GRADO EN INGENIERIA EN TECNICAS INDUSTRIALES

Course of the qualification taught: 2016-17

Hours/credits: Credits

Number of hours/credits: 3

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automática, Ingeniería Eléctrica y Electrónica E Informática Industrial (N)

Assessing body: ETSII

Obtained qualification: 3.8

Maximum possible qualification: 5

Language in which the subject is taught: Spanish

21 Type of teaching: Official teaching

Name of subject/ name of course: Fundamentos De Automatica

Type of programme: Others

Type of teaching: In person theory

Type of subject: Obligatory

Title: GRADO EN INGENIERIA EN TECNICAS INDUSTRIALES

Course of the qualification taught: 2017-18

Hours/credits: Credits

Number of hours/credits: 3

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automática, Ingeniería Eléctrica y Electrónica E Informática Industrial (N)

Assessing body: ETSII

Obtained qualification: 3.1

Maximum possible qualification: 5

Language in which the subject is taught: Spanish

22 Type of teaching: Official teaching

Name of subject/ name of course: Fundamentos De Automatica

Type of programme: Others

Type of teaching: In person theory

Type of subject: Obligatory

Title: GRADO EN INGENIERIA EN TECNICAS INDUSTRIALES

Course of the qualification taught: 2018-19

Hours/credits: Credits

Number of hours/credits: 3

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automática, Ingeniería Eléctrica y Electrónica E Informática Industrial (N)

Assessing body: ETSII

Obtained qualification: 4.4

Maximum possible qualification: 5

Language in which the subject is taught: Spanish

23 Type of teaching: Official teaching

Name of subject/ name of course: Fundamentos De Automatica

Type of programme: Others

Type of teaching: In person theory

Type of subject: Obligatory

Title: GRADO EN INGENIERIA EN TECNICAS INDUSTRIALES

Course of the qualification taught: 2019-20

Hours/credits: Credits

Number of hours/credits: 3

Type of body: University



Body where project took place: Universidad
Politécnica de Madrid

Department: Automática, Ingeniería Eléctrica y Electrónica E Informática Industrial (N)

Assessing body: Universidad Politécnica de Madrid

Obtained qualification: 8,36

Maximum possible qualification: 10

Language in which the subject is taught: Spanish

24 **Type of teaching:** Official teaching

Name of subject/ name of course: Fundamentos De Automatica

Type of programme: Others

Type of teaching: In person theory

Type of subject: Obligatory

Title: GRADO EN INGENIERIA EN TECNICAS INDUSTRIALES

Course of the qualification taught: 2020-21

Hours/credits: Credits

Number of hours/credits: 3

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automática, Ingeniería Eléctrica y Electrónica E Informática Industrial (N)

Assessing body: Universidad Politécnica de Madrid

Obtained qualification: 9,44

Maximum possible qualification: 10

Language in which the subject is taught: Spanish

25 **Type of teaching:** Official teaching

Name of subject/ name of course: Advanced Robotics

Type of programme: Master's degree

Type of teaching: Virtual

Type of subject: Obligatory

Title: Master's Programme in Digital Innovation: Digital Manufacturing (EIT Digital Master School)

Course of the qualification taught: 2020-21

Hours/credits: Credits

Number of hours/credits: 3

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automática, Ingeniería Eléctrica y Electrónica E Informática Industrial (N)

Language in which the subject is taught: English

26 **Type of teaching:** Official teaching

Name of subject/ name of course: Cursos y Conferencias

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Optional

Title: Master Universitario en Automatica y Robotica

Course of the qualification taught: 2017-18

Hours/credits: Credits

Number of hours/credits: 3

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automática, Ingeniería Eléctrica y Electrónica e Informática Industrial (N)

Language in which the subject is taught: Spanish

27 **Type of teaching:** Official teaching

Name of subject/ name of course: Avances en Automatica y Robotica

Type of programme: Master's degree

Type of teaching: In person theory



Type of subject: Optional

Title: Master Universitario en Automática y Robotica

Course of the qualification taught: 2016-17

Hours/credits: Credits

Number of hours/credits: 3

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automática, Ingeniería Eléctrica y Electrónica e Informática Industrial (N)

Language in which the subject is taught: Spanish

28 Type of teaching: Official teaching

Name of subject/ name of course: Laboratorio de Automática y Robótica

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Obligatory

Title: Master Universitario en Automática y Robotica

Course of the qualification taught: 2018-20

Hours/credits: Credits

Number of hours/credits: 6

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automática, Ingeniería Eléctrica y Electrónica e Informática Industrial (N)

29 Type of teaching: Official teaching

Name of subject/ name of course: Robótica Avanzada

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Obligatory

Title: Eit Digital Master Programme on Digital Manufacturing

Hours/credits: Credits

Number of hours/credits: 6

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automática, Ingeniería Eléctrica y Electrónica e Informática Industrial (N)

30 Type of teaching: Official teaching

Name of subject/ name of course: Advanced Robotics

Type of programme: Master's degree

Type of teaching: Virtual

Type of subject: Obligatory

Title: Master's Programme in Digital Innovation: Digital Manufacturing (EIT Digital Master School)

Hours/credits: Credits

Number of hours/credits: 3

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automática, Ingeniería Eléctrica y Electrónica E Informática Industrial (N)

31 Type of teaching: Official teaching

Name of subject/ name of course: Programación de Automatismos

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Optional

Title: Master Universitario en Automática y Robotica

Course of the qualification taught: 2017-18

Hours/credits: Credits



Number of hours/credits: 3

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automática, Ingeniería Eléctrica y Electrónica e Informática Industrial (N)

Assessing body: ETSII

Obtained qualification: 4.2

Maximum possible qualification: 5

Language in which the subject is taught: Spanish

32 **Type of teaching:** Official teaching

Name of subject/ name of course: Programación de Automatismos

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Optional

Title: Master Universitario en Automática y Robotica

Course of the qualification taught: 2018-19

Hours/credits: Credits

Number of hours/credits: 3

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automática, Ingeniería Eléctrica y Electrónica e Informática Industrial (N)

33 **Type of teaching:** Official teaching

Name of subject/ name of course: Programación de Automatismos

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Optional

Title: Master Universitario en Automática y Robotica

Course of the qualification taught: 2019-20

Hours/credits: Credits

Number of hours/credits: 3

Body where project took place: Universidad
Politécnica de Madrid

Type of body: University

Department: Automática, Ingeniería Eléctrica y Electrónica e Informática Industrial (N)

Directing of doctoral theses or final projects

1 **Title of: DT, ECP, ASD:** Model Design of a Lower Body Humanoid robot Based on PAM Actuators and reinforcement learning implementation for its control

Type of project: Trabajo Final de Máster

University: Universidad Politécnica de Madrid

Type of body: University

Doctorate student: Eduardo Alberto Reyero Ibañez

Mark: 9,6

Date of reading: 10/11/2020

2 **Title of: DT, ECP, ASD:** Dispositivo inteligente para la localización de víctimas mediante señales sonoras

Type of project: End of course project

University: Universidad Politécnica de Madrid

Type of body: University

Doctorate student: Mario Triviño Romano

Mark: 9,7

Date of reading: 22/07/2020



- 3** **Title of: DT, ECP, ASD:** Implementación de un sistema de seguridad aplicado a refinerías de petróleo
Type of project: TFM
Doctorate student: Iñigo Fernández Carre
Date of reading: 24/02/2020
- 4** **Title of: DT, ECP, ASD:** Localización De Fuentes Sonoras Para La Detección De Víctimas Mediante Robots Móviles
Type of project: TFM
Doctorate student: Esther Aguado González
Mark: 9,4
Date of reading: 11/10/2019
- 5** **Title of: DT, ECP, ASD:** Diseño De Un Sistema De Automatización Y Control De Un Instrumento Musical
Type of project: TFG
Doctorate student: Javier Lanzas Lopez
Mark: 9,3
Date of reading: 08/10/2019
- Title of: DT, ECP, ASD:** Modelo De Calibración para Robot De Cables Autoinstalable **Type of project:** TFG
Doctorate student: Iñaki Echevarria Herrera
Mark: 9,3
- 6** **Date of reading:** 18/07/2019
- Title of: DT, ECP, ASD:** Autonomous Adaptive Sampling Of The Water Column
Type of project: TFM
Doctorate student: Ángela Serrano Curiel
Mark: 9,5
Date of reading: 18/10/2018
- 7** **Title of: DT, ECP, ASD:** Actuación Inteligente Con Manipulador Móvil
Type of project: TFG
Doctorate student: José Luis Millán Valbuena
Mark: 9,2
Date of reading: 19/09/2018
- 8** **Title of: DT, ECP, ASD:** Detección De Fuentes Sonoras Con Robot
Type of project: TFG
Doctorate student: Ana García Pérez
Mark: 9,6
Date of reading: 19/09/2018

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10 **Title of:** DT, ECP, ASD: Adaptive and Immersive Interfaces to improve Situational Awareness in Multi-Robot Missions
Type of project: Doctoral thesis
Mark: Sobresaliente cum laude
Date of reading: 24/07/2018

11 **Title of:** DT, ECP, ASD: Sistema de guiado navegación y control para vehículo eléctrico mediante uso de sistemas de navegación GNSS y técnicas borrosas
Type of project: TFG
Doctorate student: Ruben Panero Martinez
Mark: 9,3
Date of reading: 23/02/2018

Title of: DT, ECP, ASD: Identificación Y Control De Motores Síncronos De Imanes Permanentes
12 **Type of project:** TFM
Doctorate student: Jorge Barrientos Diez
Mark: 9,7
Date of reading: 11/10/2017

Title of: DT, ECP, ASD: Actuación Robótica Autónoma Para Un Ajuste De Una Variable En Un Proceso Industrial
Type of project: TFG
13 **Doctorate student:** David Villagra Guilarte
Mark: 9,5
Date of reading: 13/09/2017

Title of: DT, ECP, ASD: Detección automática de anomalías en patrullaje robotizado
Type of project: TFG
Doctorate student: Esther Aguado González
14 **Mark:** 9,8
Date of reading: 13/08/2017

Title of: DT, ECP, ASD: Tracking and Intercepting Pedestrians: A Robotic Approach to Surveillance of Critical Infrastructures
Type of project: Doctoral thesis
Mark: Sobresaliente cum laude
15 **Date of reading:** 23/11/2016

Title of: DT, ECP, ASD: Detecting sound anomalies for robotic surveillance
Type of project: TFM

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University: Universidad Politécnica de Madrid
Doctorate student: MICHIEL VAN PARYS
Date of reading: 30/06/2016

Type of body: University

17 **Title of:** DT, ECP, ASD: Automatización de Sistemas de Limpieza CIP, Basada en Ultrasonidos -USCIPA-
Type of project: TRABAJO FINAL DE MASTER
University: Universidad de La Rioja

Type of body: University



Doctorate student: Úbeda Trillo Marco Alejandro
Mark: 9,7
Date of reading: 07/04/2016

- 18** **Title of: DT, ECP, ASD:** Nuevo sistema continuo de impermeabilización de obras subterráneas
Type of project: TFM
University: Universidad de La Rioja **Type of body:** University
Doctorate student: MIGUEL LOZANO GARCÍA
Mark: 9
Date of reading: 07/04/2016

- 19** **Title of: DT, ECP, ASD:** Las Redes de Petri Interpretadas en el Diagnostico de Fallos Hibridos. Aplicacion a un Helicoptero no Tripulado
Type of project: Doctoral thesis
Mark: Sobresaliente cum laude
Date of reading: 04/02/2016

- 20** **Title of: DT, ECP, ASD:** Dispositivo para la movilidad urbana de personas con diversidad funcional
Type of project: TRABAJO FINAL MASTER
University: Universidad de La Rioja **Type of body:** University
Doctorate student: Uxue Gárate Fernández
Mark: 7,7
Date of reading: 24/11/2015

- 21** **Title of: DT, ECP, ASD:** Cognitive risk detection and avoidance system for mUAV in outdoor scenarios
Type of project: Doctoral thesis
Mark: Sobresaliente cum laude
Date of reading: 30/06/2015

- 22** **Title of: DT, ECP, ASD:** LPA_PLUG-IN
Type of project: Trabajo Final de Master
University: Universidad Internacional de La Rioja (UNIR) **Type of body:** University
Doctorate student: Francisco Otero Paz
Date of reading: 03/05/2015

- 23** **Title of: DT, ECP, ASD:** Home Care & Health Abroad HCHA
Type of project: Trabajo Final Master
University: Universidad Internacional de La Rioja (UNIR) **Type of body:** University
Doctorate student: Clotet Arrufat
Mark: 9
Date of reading: 03/05/2015



- 24** **Title of:** DT, ECP, ASD: Aerial Coverage Path Planning applied to Mapping
Type of project: Doctoral thesis
Mark: Sobresaliente cum laude
Date of reading: 21/11/2014
- 25** **Title of:** DT, ECP, ASD: "Detection and Tracking of Dynamic Objects. A MultiRobot Approach to Critical Infrastructures Surveillance"
Type of project: Doctoral thesis
Mark: Sobresaliente
Date of reading: 15/11/2012
- 26** **Title of:** DT, ECP, ASD: Mapeado de un escenario virtual para un sistema Multi-robot usando el entorno Microsoft Robotics Studio
University: Universidad Politécnica de Madrid **Type of body:** University
Doctorate student: Antonio Alejandro Matta Gómez
Mark: 9,9
Date of reading: 01/09/2012
- 27** **Title of:** DT, ECP, ASD: ROSPHERE: Diseño, construcción y aplicación de una esfera robótica
Type of project: Trabajo Fin de Master
University: Universidad Politécnica de Madrid **Type of body:** University
Doctorate student: Juan David Hernández Vega
Mark: 9,7
Date of reading: 01/09/2012
- Title of:** DT, ECP, ASD: Sistema Multirobot para la realización de rastreo coordinado en entornos urbanos
- 28** **Type of project:** End of course project
University: Universidad Politécnica de Madrid **Type of body:** University
Doctorate student: Daniel Herrero Giner
Mark: 9,5
Date of reading: 01/11/2010
- Title of:** DT, ECP, ASD: Localización de objetos dinámicos por una flota de robots autónomos de seguridad
- 29** **Type of project:** Trabajo Fin de Master
University: Universidad Politécnica de Madrid **Type of body:** University
Doctorate student: Gonzalo Ruy Rodriguez Canosa
Mark: 9,5
Date of reading: 01/09/2010
- Title of:** DT, ECP, ASD: Algoritmos de mapeado y reconstrucción en entornos exteriores Tridimensionales
- Type of project:** End of course project
- 30** **University:** Universidad Politécnica de Madrid **Type of body:** University
Doctorate student: Enrique Constantino Del Sol Acero
Mark: 9,9
Date of reading: 01/11/2009



31 **Title of:** DT, ECP, ASD: Estrategias para el guiado de un helicóptero autónomo. Diseño y validación.

Type of project: End of course project

University: Universidad Politécnica de Madrid

Type of body: University

Doctorate student: Enrique Daniel Lillo Prado

Mark: 10

Date of reading: 01/11/2006

Title of: DT, ECP, ASD: Análisis de los factores que influyen en la teleoperación de un vehículo aéreo autónomo

32 **Type of project:** End of course project

University: Universidad Politécnica de Madrid

Type of body: University

Doctorate student: Agustín Díaz García

Mark: 9,4

Date of reading: 01/11/2005

Title of: DT, ECP, ASD: Sistema de control empotrado e instrumentación para helicóptero autónomo

Type of project: End of course project

33 **University:** Universidad Politécnica de Madrid

Type of body: University

Doctorate student: Jorge Artieda Trigueros

Mark: 9,9

Date of reading: 01/11/2005

Title of: DT, ECP, ASD: Modelo dinámico y sistema de supervisión de vuelo de un helicóptero Autónomo

Type of project: End of course project

University: Universidad Politécnica de Madrid

Type of body: University

34 **Doctorate student:** Julio Valero Gómez

Mark: 10

Date of reading: 05/07/2005

Title of: DT, ECP, ASD: Interfaz de usuario para la teleoperación de un minihelicóptero

Type of project: End of course project

University: Universidad Politécnica de Madrid

Type of body: University

Doctorate student: Rafael José Alvarez Romero

35 **Mark:** 9,2

Date of reading: 10/10/2003

Title of: DT, ECP, ASD: Control de un mini helicóptero usando técnicas de control Fuzzy

Type of project: End of course project

University: Universidad Politécnica de Madrid

Type of body: University

Doctorate student: Jorge José León Pérez

Mark: 10

36 **Date of reading:** 08/03/2003

Title of: DT, ECP, ASD: Modelado y simulación de un minihelicóptero como ayuda a su telecontrol

Type of project: End of course project

University: Universidad Politécnica de Madrid

Type of body: University

37



Doctorate student: Jesús Vidal Gil

Mark: 10

Date of reading: 10/10/2002

- 38** **Title of:** DT, ECP, ASD: Sistema avanzado de teleoperación para minihelicóptero
Type of project: End of course project
University: Universidad Politécnica de Madrid **Type of body:** University
Doctorate student: David Merino Delgado
Mark: 10
Date of reading: 10/10/2001

- 39** **Title of:** DT, ECP, ASD: Diseño del equipo de abordaje de un minihelicóptero autónomo
Type of project: End of course project
University: Universidad Politécnica de Madrid **Type of body:** University
Doctorate student: eduardo Elua Samaniego
Mark: 10
Date of reading: 03/10/1999

- 40** **Title of:** DT, ECP, ASD: Cooperative Multi-robot Patrolling: A study of distributed approaches based on mathematical models of game theory to protect infrastructures
Type of project: Doctoral thesis
Mark: Sobresaliente cum laude

- 41** **Title of:** DT, ECP, ASD: Arquitectura abierta para el control autónomo y teleoperado de un mini helicóptero.
Type of project: Doctoral thesis

Participation in projects for innovation in teaching (plans and research teams related with EEES).

- 1** **Name of the project:** CircularizatETSII. Demostrador universitario de economía circular
Number of participants: 1
Participation end date: 31/12/2020
- 2** **Name of the project:** Metodología par la adquisición de competencias transversales en asignaturas de Automática
Number of participants: 1
Funding body: Universidad Politécnica de Madrid **Type of body:** University
Participation end date: 30/08/2012
- 3** **Name of the project:** Diseño, desarrollo y evaluación de prácticas a distancia para las asignaturas de Regulación Automática mediante la plataforma AulaWeb
Number of participants: 16
Funding body: E.T.S.I. INDUSTRIALES **Type of body:** University
Participation end date: 01/06/2011



Experience in Science and Technology

Participation in research, development or innovation groups / teams

Name (if applicable): Robótica y Cibernética
Name of the head researcher of the group (HR): Antonio Barrientos Cruz
City: Madrid, Community of Madrid, Spain
Body the group belongs to: Universidad Politécnica de Madrid
Start date: 05/01/2009

Scientific or technological activity

Participation in R&D&I projects funded in competitive tenders by public or private bodies

- 1 **Name of the project:** TASAR: Equipo de Robots para Misiones para Búsqueda y Rescate
Head(s) researcher(s): Antonio Barrientos Cruz
Number of participating researchers: 4
Start date: 01/09/2020
Total amount: 233.530

- 2 **Name of the project:** RoboCity2030- DIH-CM Madrid Robotics Digital Innovation Hub (Robótica aplicada a la mejora de la calidad de vida de los ciudadanos. fase IV)
Head(s) researcher(s): Antonio Barrientos Cruz
Number of participating researchers: 11
Funding body or bodies: Programas de Actividades I+D en la comunidad de Madrid y Fondos Estructurales de la Unión Europea
Code according to the funding body: S2018/NMT-4331
Start date: 13/12/2018
Total amount: 924,6

Duration of the project: 4 years

- 3 **Name of the project:** ROBOCITY2030-DIH: MADRID ROBOTICS DIGITAL INNOVATION HUB (GROB-UPM)
Head(s) researcher(s): Antonio Barrientos Cruz
Number of participating researchers: 12
Funding body or bodies: Programas de Actividades I+D en la comunidad de Madrid y Fondos Estructurales de la Unión Europea

Duration of the project: 4 years

Code according to the funding body: M190070040
Start date: 13/12/2018
Total amount: 924.600

- 4 **Name of the project:** Team Oriented Robotics Actuation In Disaster Scenarios
Head(s) researcher(s): Jaime del Cerro Giner



Number of participating researchers: 1

Funding body or bodies: Universidad Politécnica de Madrid

Code according to the funding body: VJIDOCUPM18JCG

Start date: 18/09/2018

Duration of the project: 2 years

Total amount: 15.000

5 Name of the project: Aplicaciones de la Robótica a la Agricultura

Head(s) researcher(s): Jaime del Cerro Giner

Number of participating researchers: 19

Funding body or bodies: Universidad Politécnica de Madrid

Code according to the funding body: NU7EWW-24-KFDY2I

Start date: 01/09/2017

Total amount: 4.800

Duration of the project: 4 months

6 Name of the project: PROTECCIÓN ROBOTIZADA DE INFRAESTRUCTURAS CRÍTICAS

Head(s) researcher(s): Antonio Barrientos Cruz **Number of participating researchers:** 9

Funding body or bodies: Ministerio de economía y competitividad

Code according to the funding body: C15007004

Start date: 01/01/2015

Duration of the project: 4 years

Total amount: 217.700

7 Name of the project: PROTECCIÓN ROBOTIZADA DE INFRAESTRUCTURAS CRÍTICAS

Head(s) researcher(s): Antonio Barrientos Cruz **Number of participating researchers:** 9

Funding body or bodies: Ministerio de economía y competitividad

Code according to the funding body: C15007004

Start date: 01/01/2015

Duration of the project: 4 years

Total amount: 0

8 Name of the project: PROTECCION ROBOTIZADA DE INFRAESTRUCTURAS CRITICAS

Head(s) researcher(s): Antonio Barrientos Cruz **Number of participating researchers:** 7

Funding body or bodies: Ministerio de Economía y Competitividad

Code according to the funding body: C15007004

Start date: 01/01/2015

Total amount: 263.417

9 Name of the project: CHEMOCONTROL

Head(s) researcher(s): Claudio Rossi

Number of participating researchers: 4

Funding body or bodies: MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD

Code according to the funding body: DPI2013-49564-EXP

Start date: 01/09/2014

Total amount: 42.350

**10 Name of the project:** SEÑALES QUÍMICAS PARA EL CONTROL DE ACTUADORES ROBÓTICOS**Head(s) researcher(s):** Claudio Rossi**Number of participating researchers:** 3**Funding body or bodies:** Ministerio de Economía y Competitividad**Code according to the funding body:** C14007003**Start date:** 01/01/2014**Total amount:** 35.000**Name of the project:** SMARTTM: Smart Telemetry Demonstration**11 Head(s) researcher(s):** Antonio Barrientos Cruz**Number of participating researchers:** 2**Funding body or bodies:** European Space Astronomy Centre**Code according to the funding body:** E110505190**Start date:** 01/03/2011**Total amount:** 41.400**12 Name of the project:** SISTEMAS MULTIROBOT PARA PROTECCION DE GRANDES INFRAESTRUCTURAS**Head(s) researcher(s):** Antonio Barrientos Cruz**Number of participating researchers:** 9**Funding body or bodies:** Ministerio de Ciencia e Innovación**Code according to the funding body:** C10050503**Start date:** 01/01/2011**Total amount:** 120.000**Name of the project:** SISTEMAS MULTIROBOT PARA PROTECCION DE GRANDES INFRAESTRUCTURAS**13 Head(s) researcher(s):** Antonio Barrientos Cruz**Number of participating researchers:** 8**Funding body or bodies:** MICINN.Proyectos de Investigación Fundamental no orientada (BOE 31/12/2009). Plan Nacional I+D+i. PIA**Code according to the funding body:** C10050503**Start date:** 05/11/2010**Total amount:** 145.200**Name of the project:** RHEA-ROBOT FLEETS FOR HIGHLY EFFECTIVE AGRICULTURE AND FORESRY MANAGEMENT**Head(s) researcher(s):** Antonio Barrientos Cruz**Number of participating researchers:** 8**14 Funding body or bodies:** CEE**Code according to the funding body:** E100505776A**Start date:** 01/08/2010**Total amount:** 0



15 Name of the project: RHEA-ROBOT FLEETS FOR HIGHLY EFFECTIVE AGRICULTURE AND FORESTRY MANAGEMENT

Head(s) researcher(s): Antonio Barrientos Cruz

Number of participating researchers: 2

Funding body or bodies: Comision Europea

Code according to the funding body: E100505776A

Start date: 01/07/2010

Total amount: 0

Name of the project: NETWORKED MULTI-ROBOT SYSTEMS

16 City: Spain

Head(s) researcher(s): Antonio Barrientos Cruz

Number of participating researchers: 3

Funding body or bodies: SENER S.A.

Code according to the funding body: P07 0505-569

Start date: 14/06/2007

Total amount: 231.000

Name of the project: FRACTAL: Flota de Robots Cooperativos Terrestres y Aéreos

17 Head(s) researcher(s): Antonio Barrientos Cruz

Number of participating researchers: 12

Funding body or bodies: Ministerio de Ciencia y Tecnología

Code according to the funding body: c06050509

Start date: 26/12/2006

Total amount: 156.090

Name of the project: ROBOCITY 2030: Robots de servicios para la mejora de la calidad de vida de los ciudadanos en áreas metropolitanas

18 Head(s) researcher(s): Rafael Aracil Santonja

Number of participating researchers: 22

Funding body or bodies: Comunidad de Madrid

Code according to the funding body: M05050501

Start date: 13/12/2005

Total amount: 183.098

Name of the project: SERVICIOS DE ENSAYOS, CALIBRACIONES, HOMOLOGACIONES A EMPRESAS

Head(s) researcher(s): Antonio Barrientos Cruz

19 Number of participating researchers: 2

Funding body or bodies: Varios

Code according to the funding body: A3300

Duration of the project: 1 year

Total amount: 0

Name of the project: MULTI-UAV COORDINATION AND CONTROL INTERFACE V4 (MUAV I2C)

20 Head(s) researcher(s): Antonio Barrientos Cruz

Number of participating researchers: 2



Funding body or bodies: AIRBUS DEFENCE & SPACE

Code according to the funding body: P130505392

Duration of the project: 4 years

Total amount: 0

21 Name of the project: SERVICIOS DE ENSAYOS, CALIBRACIONES, HOMOLOGACIONES A EMPRESAS

City: Unknown

Head(s) researcher(s): Antonio Barrientos Cruz

Number of participating researchers: 2

Funding body or bodies: Varios

Code according to the funding body: A3303

Duration of the project: 1 year

Total amount: 0

22 Name of the project: PROTECCIÓN ROBOTIZADA DE INFRAESTRUCTURAS CRÍTICAS **City:** Unknown

Head(s) researcher(s): Antonio Barrientos Cruz

Number of participating researchers: 7

Funding body or bodies: Ministerio de Economía, Industria y Competitividad

Code according to the funding body: C15007004

Duration of the project: 3 years

Total amount: 0

Name of the project: ROBÓTICA. Robótica aplicada a la mejora de la calidad de vida de los ciudadanos.

23 City: Spain

Head(s) researcher(s): Rafael Aracil Santonja

Number of participating researchers: 16

Funding body or bodies: Comunidad de Madrid

Code according to the funding body: M140538002

Duration of the project: 4 years

Total amount: 0

Name of the project: MULTI-UAV COORDINATION AND CONTROL INTERFACE V4 (MUAV I2C)

24 City: Spain

Head(s) researcher(s): Antonio Barrientos Cruz

Number of participating researchers: 3

Funding body or bodies: Airbus

Code according to the funding body: P130505392

Total amount: 200

Name of the project: MULTI WAYPOINT TRAJECTORY SIMULATOR- MWTS

25 City: Unknown

Head(s) researcher(s): Antonio Barrientos Cruz

Number of participating researchers: 4

Funding body or bodies: Indra

Code according to the funding body: P120505179

Total amount: 0

26 Name of the project: SISTEMAS MULTIROBOT PARA PROTECCION DE GRANDES INFRAESTRUCTURAS

City: Unknown



Head(s) researcher(s): Antonio Barrientos Cruz
Number of participating researchers: 7
Funding body or bodies: Ministerio de educacion y ciencia
Code according to the funding body: C10050503
Total amount: 0

27 Name of the project: ROBOCITY2030-II-CM
City: Spain
Head(s) researcher(s): Rafael Aracil Santonja
Number of participating researchers: 8
Funding body or bodies: Comunidad de Madrid
Code according to the funding body: M10050501

28 Name of the project: ROBOT BIO-INSPIRADOS PARA ACTIVIDADES EN MEDIOS NO COMPACTADOS
City: Unknown
Head(s) researcher(s): Jaime del Cerro Giner
Number of participating researchers: 9
Funding body or bodies: Comunidad de Madrid
Code according to the funding body: QM100505009

Participation in R&D&I contracts, agreements or projects, not the result of competitive bidding, with companies (or internally in them) and/or governments

1 Name of the project: SERVICIOS DE ENSAYOS, CALIBRACIONES HOMOLOGACIONES A EMPRESAS
City: Spain
Head researcher: Antonio Barrientos Cruz
Number of participating researchers: 2
Funding body: Varios **Type of body:** Body, others
Start date: 01/01/2015
Total amount: 0

2 Name of the project: MULTI-UAV COORDINATION AND CONTROL INTERFACE V4 (MUAV I2C)
City: Unknown
Head researcher: Antonio Barrientos Cruz
Number of participating researchers: 3
Funding body: AIRBUS **Type of body:** Body, others
Start date: 01/10/2013 **Duration of project:** 4 years
Total amount: 0

3 Name of the project: MULTI WAYPOINT TRAJECTORY SIMULATOR- MWTS
City: Spain
Head researcher: Antonio Barrientos Cruz
Number of participating researchers: 4
Funding body: Indra **Type of body:** Body, others
Start date: 01/05/2012
Total amount: 11.000

4 Name of the project: HELIOSTAT CLEANING TEAM-ORIENTED ROBOT
City: Spain
Head researcher: Antonio Barrientos Cruz



Number of participating researchers: 4
Funding body: SENER
Start date: 01/05/2010
Total amount: 0

Type of body: Body, others

5 **Name of the project:** Análisis funcional de sistemas mecatrónicos de ocio interactivo
City: Unknown
Head researcher: Antonio Barrientos Cruz
Number of participating researchers: 3
Funding body: Varios
Start date: 04/01/2010
Total amount: 0

Type of body: Body, others

6 **Name of the project:** Asesoramiento tecnológico en el desarrollo de proyectos de I+D+i en área de Automática e Informática
City: Unknown
Head researcher: Antonio Barrientos Cruz
Number of participating researchers: 2
Funding body: Varias
Start date: 04/01/2010
Total amount: 0

Type of body: Body, others

7 **Name of the project:** DISEÑO, DESARROLLO Y EVALUACIÓN DE PRÁCTICAS A DISTANCIA PARA LAS ASIGNATURAS DE REGULACIÓN AUTOMÁTICA MEDIANTE LA PLATAFORMA AULAWEB
City: Unknown
Head researcher: Manuel Ferre Perez
Number of participating researchers: 17
Funding body: Universidad Politécnica de Madrid
Start date: 13/07/2009
Total amount: 10.000

Type of body: University

8 **Name of the project:** SERVICIOS DE HOMOLOGACIÓN A DIVERSAS EMPRESAS
City: Unknown
Head researcher: Antonio Barrientos Cruz
Number of participating researchers: 2
Funding body: varios
Duration of project: 1 year
Total amount: 0

Type of body: Body, others

9 **Name of the project:** MULTI-UAV COORDINATION AND CONTROL INTERFACE V4 (MUAV I2C)
City: Unknown
Head researcher: Antonio Barrientos Cruz
Number of participating researchers: 3
Funding body: Airbus
Duration of project: 4 years
Total amount: 0

Type of body: Body, others

10 **Name of the project:** SERVICIOS DE ENSAYOS, CALIBRACIONES, HOMOLOGACIONES A EMPRESAS
City: Unknown
Head researcher: Antonio Barrientos Cruz
Number of participating researchers: 3



Funding body: Empresas Varias (Sener, Grupo Codere)

Type of body: Body, others

Duration of project: 1 year

Total amount: 0

11 Name of the project: DESARROLLO CONJUNTO SENER Y EL GRUPO DE INVEST. EN ROBOTICA Y CIBERNÉTICA DE SISTEMAS ROBÓTICOS DESTINADOS A LA EVALUACIÓN DEL ENTORNO E INTERVENCIÓN TRAS UNA SITUACIÓN DE CATÁSTROFE

City: Spain

Head researcher: Antonio Barrientos Cruz

Number of participating researchers: 4

Funding body: SENER

Type of body: Body, others

Total amount: 30.000

12 Name of the project: MULTI-UAV COORDINATION AND CONTROL INTERFACE V4 (MUAV I2C)

City: Unknown

Head researcher: Antonio Barrientos Cruz

Number of participating researchers: 3

Funding body: AIRBUS

Type of body: Body, others

Total amount: 200.000

13 Name of the project: Asesoramiento tecnológico y desarrollo de proyectos de I+D+i en área de Automática e Informática

City: Unknown

Head researcher: Antonio Barrientos Cruz

Number of participating researchers: 2

Funding body: Varias

Type of body: Body, others

Total amount: 0

14 Name of the project: MULTI WAYPOINT TRAJECTORY SIMULATOR- MWTS

City: Spain

Head researcher: Antonio Barrientos Cruz

Number of participating researchers: 4

Funding body: INDRA Sistemas S.A.

Type of body: Body, others

Total amount: 11.000

15 Name of the project: Análisis funcional de sistemas mecatrónicos de ocio interactivo

City: Unknown

Head researcher: Antonio Barrientos Cruz

Number of participating researchers: 3

Funding body: Empresas del sector servicios

Type of body: Body, others

16 Name of the project: Análisis funcional de sistemas mecatrónicos de ocio interactivo

City: Unknown

Head researcher: Antonio Barrientos Cruz

Number of participating researchers: 3

Funding body: Empresas del sector servicios

Type of body: Body, others

17 Name of the project: Asesoramiento tecnológico en el desarrollo de proyectos de I+D+i en área de Automática e Informática

City: Unknown



Head researcher: Antonio Barrientos Cruz

Number of participating researchers: 2

Funding body: Empresas del Sector Servicios

Type of body: Body, others

18 Name of the project: Análisis funcional de sistemas mecatrónicos de ocio interactivo

City: Unknown

Head researcher: Antonio Barrientos Cruz

Number of participating researchers: 3

Funding body: Varios

Type of body: Body, others

Total amount: 0

19 Name of the project: Asesoramiento tecnológico en el desarrollo de proyectos de I+D+i en área de Automática e Informática

City: Unknown

Head researcher: Antonio Barrientos Cruz

Number of participating researchers: 2

Funding body: Varias

Type of body: Body, others

Total amount: 0

20 Name of the project: Ensayos Laboratorio LEMAREC F2I2

City: Unknown

Head researcher: Antonio Barrientos Cruz

Number of participating researchers: 3

Funding body: Entidades solicitantes

Type of body: Body, others

Total amount: 237.620

Scientific Activities and General Techniques

Scientific production

Publications, Scientific and Technical Documents and any other publication

- 1** Christyan Cruz Ulloa; Antonio Barrientos; Jaime del Cerro; Anne Krus; Constantino Valero. Robotic Fertilisation Using Localisation Systems Based on Point Clouds in Strip-Cropping Fields. AGRONOMY-BASEL. 11 - 1, 2021.
Type of production: Article
Ranking among the total: 3
Index measuring impact: 2,603
- 2** Andres Martin Barrio; Silvia Terrile.; Montserrat Díaz Carrasco; Jaime del Cerro Giner; Antonio Barrientos Cruz. Modelling the Soft Robot Kyma Based on Real-Time Finite Element Method. Computer Graphics Forum. 02/2020. ISSN 1467-8659
Type of production: Article
Ranking among the total: 4
Index measuring impact: 2,373
- 3** Juan Jesus Roldan; elena pena-tapia; pablo garcia-aunon; jaime del cerro; antonio barrientos. Bringing Adaptive and Immersive Interfaces to Real-World Multi-Robot Scenarios: Application to Surveillance and Intervention in Infrastructures (vol 7, pg 86319, 2019). IEEE ACCESS. 8 - null, pp. 212837 - 212837. 2020. ISSN 2169-3536

Type of production: Article
Ranking among the total: 4
Index measuring impact: 3,745

- 4** andres martin-barrio; juan jesus roldan-gomez; jaime del cerro; antonio barrientos. Design of a Hyper-Redundant Robot and Teleoperation Using Mixed Reality for Inspection Tasks. SENSORS. 20 - 8, pp. 0 - 17. 2020.
Type of production: Article
Ranking among the total: 3
Index measuring impact: 3,031
- 5** anne krus; matheus cardim ferreira lima; constantino valero; antonio barrientos; jaime del cerro; juan jesus roldan-gomez. Monitoring Plant Status and Fertilization Strategy through Multispectral Images. SENSORS. 20 - 2, pp. 0 - 21. 2020.
Type of production: Article
Ranking among the total: 5
Index measuring impact: 3,031
- 6** Jorge De Leon Rivas; Raúl Cebolla; Jaime del Cerro Giner; Antonio Barrientos Cruz. ClegS: A Meta-Package to Develop C-Legged Robots.Robot Operating System (ROS). 1-58, 2020. ISBN 978-3-030-45956-7
Type of production: Chapters of books
Ranking among the total: 3
- 7** Andres Martin Barrio; Juan Jesús Roldan; Silvia Terrile; Jaime del Cerro Giner; Antonio Barrientos Cruz. Application of immersive technologies and natural language to hyper-redundant robot teleoperation. Virtual Reality. pp. 1 - 15. 02/2019. ISSN 1359-4338
Type of production: Article
Ranking among the total: 4
Index measuring impact: 3,634
- 8** Antonio Barrientos Cruz; Jaime del Cerro Giner. Robotics in medicine. Medicina Clínica. pp. 1 - 2. 02/2019. ISSN 0025-7753
Type of production: Article
Ranking among the total: 2
Index measuring impact: 1,168
- 9** pablo garcia-aunon; jaime del cerro; antonio barrientos. Behavior-Based Control for an Aerial Robotic Swarm in Surveillance Missions. SENSORS. 19 - 20, pp. 0 - 27. 2019.
Type of production: Article
Ranking among the total: 2
Index measuring impact: 2,475
- 10** juan jesus roldan; elena pena-tapia; pablo garcia-aunon; jaime del cerro; antonio barrientos. Bringing Adaptive and Immersive Interfaces to Real-World Multi-Robot Scenarios: Application to Surveillance and Intervention in Infrastructures. IEEE ACCESS. 7 - null, pp. 86319 - 86335. 2019. ISSN 2169-3536
Type of production: Article
Ranking among the total: 4
Index measuring impact: 3,557
- 11** Juan Jesús Roldán; Elena Peña-Tapia; David Garzón-Ramos; Jorge De Leon Rivas; Mario Garzón; Jaime del Cerro Giner; Antonio Barrientos Cruz. Multi-robot Systems, Virtual Reality and ROS: Developing a New Generation of Operator Interfaces. Robot Operating System (ROS).29-64, 2019. ISBN 978-3-319-91590-6
Type of production: Chapters of books

Ranking among the total: 6

- 12** Andres Martin Barrio; Antonio Barrientos Cruz; Jaime del Cerro Giner. The Natural-CCD algorithm, a novel method to solve the inverse kinematics of hyper-redundant and soft robots. *Soft Robotics*. 00 - null, pp. 1 - 16. 02/2018. ISSN 2169-5172
Type of production: Article
Ranking among the total: 3
Index measuring impact: 8,649
- 13** juan jesus roldan; jaime del cerro; miguel a. olivares-mendez; antonio barrientos. Analyzing and improving multi-robot missions by using process mining. *AUTONOMOUS ROBOTS*. 42 - 6, pp. 1187 - 1205. 2018. ISSN 0929-5593
Type of production: Article
Ranking among the total: 2
Index measuring impact: 2,706
- 14** Juan Jesus Roldan Gomez; Jaime del Cerro Giner; David Garzón-Ramos; Pablo García-Auñón; Mario Andrei Garzon Oviedo; Jorge De Leon Rivas; Antonio Barrientos Cruz. Robots in Agriculture: State of Art and Practical Experiences. *Service Robots*. 67-90, Intech Open Science, 2018. ISBN 978-953-51-3723-8
Type of production: Chapters of books
Ranking among the total: 2
- 15** Juan Jesus Roldan Gomez; Miguel Angel Olivares; Jaime del Cerro Giner; Antonio Barrientos Cruz. Analyzing and improving multi-robot missions by using process mining. *Autonomous Robots*. 42 Issue 6 - null, pp. 1187 - 1205. 02/2017. ISSN 0929-5593
Type of production: Article
Ranking among the total: 3
Index measuring impact: 2,706
- 16** Jaime del Cerro Giner; Constantino Valero Ubierna; Pablo González De Santos; Angela Ribeiro. Fleets of robots for environmentally-safe pest control in agriculture. *Precision Agriculture*. pp. 574 - 614. 02/2017. ISSN 1385-2256
Type of production: Article
Ranking among the total: 1
Index measuring impact: 2,012
- 17** roberto gonzalez; antonio barrientos; marcelo toapanta; jaime del cerro. Application of Support Vector Machines (SVM) for clinical diagnosis of Parkinson's Disease and Essential Tremor. *REVISTA IBEROAMERICANA DE AUTOMATICA E INFORMATICA INDUSTRIAL*. 14 - 4, pp. 394 - 405. 2017. ISSN 1697-7912
Type of production: Article
Ranking among the total: 4
Index measuring impact: 0,475
- 18** juan jesus roldan; elena pena-tapia; andres martin-barrio; jaime del cerro; miguel a. olivares-mendez; antonio barrientos. Multi-Robot Interfaces and Operator Situational Awareness: Study of the Impact of Immersion and Prediction. *SENSORS*. 17 - 8, pp. 0 - 25. 2017. ISSN 1424-8220
Type of production: Article
Ranking among the total: 4
Index measuring impact: 2,033
- 19** juan jesus roldan; jaime del cerro; antonio barrientos. Using Process Mining to Model Multi-UAV Missions through the Experience. *IEEE INTELLIGENT SYSTEMS*. 32 - 4, pp. 40 - 47. 2017. ISSN 1541-1672
Type of production: Article

Ranking among the total: 2
Index measuring impact: 3,532

- 20** Mario Andrei Garzon Oviedo; joao Valente; Juan Jesus Roldan Gomez; David Alfredo Garzon; Jorge De Leon Rivas; Antonio Barrientos Cruz; Jaime del Cerro Giner. Using ROS in Multi-robot Systems: Experiences and Lessons Learned from Real-World Field Tests. Robot Operating System (ROS). 449-483, 2017. ISBN 978-3-319-54926-2

Type of production: Chapters of books
Ranking among the total: 7

- 21** jesus conesa-munoz; angela ribeiro; joao valente; jaime del cerro; antonio barrientos. A Multi-Robot Sense-Act Approach to Lead to a Proper Acting in Environmental Incidents. SENSORS. 16 - 8, pp. 0 - 19. 2016. ISSN 1424-8220

Type of production: Article
Ranking among the total: 4
Index measuring impact: 2,245

- 22** Miguel Angel Trigos Martínez; Antonio Barrientos Cruz; Jaime del Cerro Giner. Systematic Process for Building a Fault Diagnoser Based on Petri Nets Applied to a Helicopter. Mathematical Problems in Engineering. pp. 1 - 13. 09/2015. ISSN 1024-123X

Type of production: Article
Ranking among the total: 3
Index measuring impact: 1,082

- 23** Mario Andrei Garzon Oviedo; Joao Ricardo Pereira Valente; Juan Jesus Roldan Gomez; Leandro Miguel Cancar de Abreu Vega; Antonio Barrientos Cruz; Jaime del Cerro Giner. A Multirobot System for Distributed Area Coverage and Signal Searching in Large Outdoor Scenarios. Journal of Field Robotics. pp. na - na. 02/2015. ISSN 1556-4967

Type of production: Article
Ranking among the total: 6
Index measuring impact: 2,059

- 24** David Sanz Muñoz; Julian David Colorado Montaña; Joao Ricardo Pereira Valente; Jaime del Cerro Giner; Antonio Barrientos Cruz. Safe operation of mini UAVs: A review of regulation and best practices. Advanced Robotics. pp. 0 - 0. 02/2015. ISSN 0169-1864

Type of production: Article
Ranking among the total: 4
Index measuring impact: 0,562

- 25** Mario Andrei Garzon Oviedo; Antonio Barrientos Cruz; Jaime del Cerro Giner; Andrés Alacid; Efstathios Fotidiadis; Gonzalo Ruy Rodríguez Canosa; Bang-Chen Wang. Tracking and following pedestrian trajectories, an approach for autonomous surveillance of critical infrastructures. Industrial Robot-an International Journal. 42 - 5, pp. 1 - 25. 02/2015. ISSN 0143-991X

Type of production: Article
Ranking among the total: 3
Index measuring impact: 0,622

- 26** david sanz; guillaume joossen; jaime del cerro; antonio barrientos. Mini-UAV Based Sensory System for Measuring Environmental Variables in Greenhouses. SENSORS. 15 - 2, pp. 3334 - 3350. 2015. ISSN 1424-8220

Type of production: Article
Ranking among the total: 3
Index measuring impact: 2,048



- 27** Antonio Alejandro Matta Gómez; Jaime del Cerro Giner; Antonio Barrientos Cruz. Multi-robot data mapping simulation by using microsoft robotics developer studi. Simulation Modelling Practice and Theory. 49 - null, pp. 305 - 319. 12/2014. ISSN 1569-190X
Type of production: Article
Ranking among the total: 2
Index measuring impact: 1,05
- 28** Roberto Gonzalez Herranz; Antonio Barrientos Cruz; Jaime del Cerro Giner; BENITO COCA. DIMETER: A Haptic Master Device for Tremor Diagnosis in Neurodegenerative Diseases. Sensors. 14 - 3, pp. 4536 - 4559. 02/2014. ISSN 1424-8220
Type of production: Article
Ranking among the total: 3
Index measuring impact: 2,395
- 29** Gonzalo Ruy Rodríguez Canosa; Jaime del Cerro Giner; Antonio Barrientos Cruz. Detection and Tracking of Dynamic Objects by Using a Multirobot System: Application to Critical Infrastructures Surveillance. Sensors. 14(2) - null, pp. 2911 - 2943. 02/2014. ISSN 1424-8220
Type of production: Article
Ranking among the total: 2
Index measuring impact: 1,953
- 30** antonio barrientos; jaime del cerro. Selective Smooth Fictitious Play: An approach based on game theory for patrolling infrastructures with a multi-robot system. EXPERT SYSTEMS WITH APPLICATIONS. 41 - 6, pp. 2897 - 2913. 2014. ISSN 0957-4174
Type of production: Article
Ranking among the total: 2
Index measuring impact: 1,854
- 31** Joao Ricardo Pereira Valente; Jaime del Cerro Giner; Antonio Barrientos Cruz. Aerial Coverage optimization in precision agriculture mangement: A musical harmony Inspired approach. Computers And Electronics in Agriculture. 99 - 99, pp. 153 - 159. 02/2013. ISSN 0168-1699
Type of production: Article
Ranking among the total: 2
Index measuring impact: 1,766
- 32** Juan David Hernandez Vega; Jorge Barrientos Diez; Jaime del Cerro Giner; Antonio Barrientos Cruz; David Sanz Muñoz. Moisture measurement in crops using spherical robots. Industrial Robot: An International Journal. 40/1 - null, pp. 59 - 66. 02/2013. ISSN 0143-991X
Type of production: Article
Ranking among the total: 3
Index measuring impact: 0,69
- 33** Erik Hernández Serrato; Jaime del Cerro Giner; Antonio Barrientos Cruz. Game Theory Models for Multi-Robot Patrolling of Infrastructures. International Journal of Advanced Robotics Systems. pp. 1 - 1. 02/2013. ISSN 1729-8806
Type of production: Article
Ranking among the total: 2
Index measuring impact: 0,821
- 34** joao valente; david sanz; jaime del cerro; antonio barrientos. Near-optimal coverage trajectories for image mosaicing using a mini quad-rotor over irregular-shaped fields. PRECISION AGRICULTURE. 14 - 1, pp. 115 - 132. 2013. ISSN 1385-2256
Type of production: Article



Ranking among the total: 3
Index measuring impact: 1,549

- 35** david sanz; gonzalo r. rodriguez-canosa; jaime del cerro; antonio barrientos. Sensorized robotic sphere for large exterior critical infrastructures supervision. JOURNAL OF APPLIED REMOTE SENSING. 7 - null, pp. 0 - 19. 2013. ISSN 1931-3195
Type of production: Article
Ranking among the total: 3
Index measuring impact: 0,818
- 36** Antonio Barrientos Cruz; Manuel Alvarez Fernandez; Juan David Hernandez Vega; Jaime del Cerro Giner; Claudio Rossi. Modelado de Caden as Cinemáticas mediante Matrices de Desplazamiento. Una alternativa al método de Denavit-Hartenberg. Revista Iberoamericana de Automática e Informática Industrial. 9 - 4, pp. 371 - 382. 10/2012. ISSN 1697-7912
Type of production: Article
Ranking among the total: 4
Index measuring impact: 0,231
- 37** Gonzalo Ruy Rodríguez Canosa; Stephen Thomas; Antonio Barrientos Cruz; Jaime del Cerro Giner; Bruce MacDonald. A Real-Time Method to Detect and Track Moving Objects (DATMO) from Unmanned Aerial Vehicles (UAVs) Using a Single Camera. Remote Sensing. 4 - 4, pp. 1090 - 1111. 02/2012. ISSN 2072-4292
Type of production: Article
Ranking among the total: 4
Index measuring impact: 2,101
- 38** javier hidalgo; pantelis poulakis; johan kohler; jaime del-cerro; antonio barrientos. Improving Planetary Rover Attitude Estimation via MEMS Sensor Characterization. SENSORS. 12 - 2, pp. 2219 - 2235. 2012. ISSN 1424-8220
Type of production: Article
Ranking among the total: 4
Index measuring impact: 1,771
- 39** joao valente; david sanz; antonio barrientos; jaime del cerro; angela ribeiro; claudio rossi. An Air-Ground Wireless Sensor Network for Crop Monitoring. SENSORS. 11 - 6, pp. 6088 - 6108. 02/2011. ISSN 1424-8220
Type of production: Article
Ranking among the total: 4
Index measuring impact: 1,771
- 40** antonio barrientos; julian colorado; jaime del cerro; Alexander Martinez Alvarez; claudio rossi; david sanz; joao valente. Aerial Remote Sensing in Agriculture: A Practical Approach to Area Coverage and Path Planning for Fleets of Mini Aerial Robots. JOURNAL OF FIELD ROBOTICS. 28 - 5, pp. 667 - 689. 2011. ISSN 1556-4959
Type of production: Article
Ranking among the total: 3
Index measuring impact: 3,58
- 41** Joao Ricardo Pereira Valente; Antonio Barrientos Cruz; Jaime del Cerro Giner. Coverage path planning to survey a large outdoor areas with aerial robots: A comprehensive analysis. Introduction to Modern Robotics II. 12-12, 2011. ISBN 978-0980733075
Type of production: Chapters of books
Ranking among the total: 3



- 42** Joao Ricardo Pereira Valente; Antonio Barrientos Cruz; Jaime del Cerro Giner; Claudio Rossi; Julian David Colorado Montaña; David Sanz Muñoz; Mario Andrei Garzon Oviedo. Multi-robot visual coverage path planning: Geometrical metamorphosis of the workspace through raster graphics based approaches. Lecture Notes in Computer Science. 58-73, Springer Berlin / Heidelberg, 2011. ISBN 978-3-642-21930-6
Type of production: Chapters of books
Ranking among the total: 3
- 43** Jaime del Cerro Giner; Antonio Barrientos Cruz; Miguel Trigos; Hermes López. Modelling and Fault Diagnosis by means of Petri Nets. Unmanned Aerial Vehicle Application. Petri Nets Applications. 353-377, InTech, 2010. ISBN 978-953-307-047-6
Type of production: Chapters of books
Ranking among the total: 1
- 44** Jaime del Cerro Giner; Antonio Barrientos Cruz; Alexander Martinez Alvarez. Modelling and Control Prototyping of Unmanned Helicopters. Aerial Vehicles. 83-106, IN-TECH, 2009. ISBN 978-953-7619-41-1
Type of production: Chapters of books
Ranking among the total: 1

Work presented in conferences at the national or international level

- 1** **Title:** Pedestrian Trajectory Prediction in Large Infrastructures A Long-term Approach based on Path Planning
Name of the conference: ICINCO 2016 13th International Conference on Informatics in Control, Automation and Robotics, 3
Your role: Speaker
Date of the event: 29/07/2016
City: Lisboa- Portugal,
Mario Andrei Garzon Oviedo; David Garzon-Ramos; Antonio Barrientos Cruz; Jaime del Cerro Giner. "Proceedings of the 13th International Conference on Informatics in Control, Automation and Robotics,".pp. 381 - 389. ISBN 978-989-758-198-4
- 2** **Title:** From video games multiple cameras to multi-robot teleoperation in disaster scenarios.
Name of the conference: IEEE International Conference on Autonomous Robot Systems and Competitions
Your role: Speaker
Date of the event: 04/05/2016
City: Bragança - Portugal,
Mario Andrei Garzon Oviedo; David Garzon-Ramos; Antonio Barrientos Cruz; Jaime del Cerro Giner. "Preprints of IEEE International Conference on Autonomous Robot Systems and Competitions".
- 3** **Title:** A Proposal of Multi-UAV Mission Coordination and Control Architecture
Name of the conference: ROBOT 2015: SECOND IBERIAN ROBOTICS CONFERENCE: ADVANCES IN ROBOTICS, VOL 1
Your role: Speaker
Date of the event: 19/11/2015
City: Lisboa (Portugal),
Juan Jesus Roldan Gomez; Bruno Lansac; Jaime del Cerro Giner; Antonio Barrientos Cruz. "Advances in Intelligent systems and computing".pp. 597 - 608. ISBN 2194-5357
- 4** **Title:** A Proposal of Multi-UAV Mission Coordination and Control Architecture
Name of the conference: ROBOT 2015: SECOND IBERIAN ROBOTICS CONFERENCE: ADVANCES IN ROBOTICS, VOL 1



Your role: Speaker

Date of the event: 19/11/2015

City: Lisboa (Portugal),

Juan Jesus Roldan Gomez; Bruno Lansac; Jaime del Cerro Giner; Antonio Barrientos Cruz. "Advances in Intelligent systems and computing".pp. 597 - 608. ISBN 2194-5357

- 5** **Title:** A UGV Approach to Measure the Ground Properties of Greenhouses
Name of the conference: ROBOT 2015: SECOND IBERIAN ROBOTICS CONFERENCE: ADVANCES IN ROBOTICS, VOL 2
Your role: Speaker
Date of the event: 19/11/2015
City: Lisboa (Portugal),
Alberto Ruiz-Larrea; Juan Jesus Roldan Gomez; Mario Andrei Garzon Oviedo; Jaime del Cerro Giner; Antonio Barrientos Cruz. "Advanced in intelligent systems and computing".pp. 3 - 13. ISBN 2194-5357
- 6** **Title:** Integrating Autonomous Aerial Scouting with Autonomous Ground Actuation to Reduce Chemical Pollution on Crop Soil
Name of the conference: ROBOT 2015: SECOND IBERIAN ROBOTICS CONFERENCE: ADVANCES IN ROBOTICS, VOL 2
Your role: Speaker
Date of the event: 19/11/2015
City: Lisboa (Portugal),
Jesús Condesa Muñoz; Angela Ribeiro Sejas; Joao Ricardo Pereira Valente; Jaime del Cerro Giner; Antonio Barrientos Cruz. "Advances in Intelligent systems and Computers. Vol2".pp. 41 - 53. ISBN 2194-5357
- 7** **Title:** Diagnosticador de Fallos Basado en Redes de Petri y LabVIEW para Evaluar el Estado de un UAV
Name of the conference: XVI Congreso Latinoamericano de Control Automático
Your role: Speaker
Date of the event: 14/10/2014
City: Mexico,
Miguel Angel Trigos Martínez; Antonio Barrientos Cruz; Jaime del Cerro Giner; Leandro Miguel Cancar de Abreu Vega. "CLCA 2014".pp. 1 - 6.
- 8** **Title:** FLOTA DE VEHÍCULOS AÉREOS PARA FOTOGRAFIA DE ALTA RESOLUCIÓN EN APLICACIONES DE AGRICULTURA DE PRECISION. PROYECTO RHEA
Name of the conference: XXXV Jornadas de Automática
Your role: Speaker
Date of the event: 03/09/2014
City: Valencia,
Antonio Barrientos Cruz; Jaime del Cerro Giner; David Sanz Muñoz; Joao Ricardo Pereira Valente; Claudio Rossi; Leandro Miguel Cancar de Abreu Vega. "Actas de las XXXV Jornadas de Automática".pp. 265 - 271. ISBN 978-84-697-0589-6
- 9** **Title:** What is the optimal stitching orientation from an aerial survey perspective?
Name of the conference: International Conference on Robotics and associated High-technologies and Equipment for Agriculture
Your role: Speaker
Date of the event: 21/05/2014
City: Madrid,
Joao Ricardo Pereira Valente; Antonio Barrientos Cruz; Jaime del Cerro Giner. "Second International Conference on Robotics and associated High-technologies and Equipment for Agriculture and forestry.



New trends in mobile robotics, perception and actuation for agriculture and forestry".pp. 449 - 456. ISBN 978-84-697-0248-2

- 10** **Title:** Aerial Fleet in RHEA Project: A High Vantage Point
Name of the conference: ROBOT 2013
Your role: Speaker
Date of the event: 28/11/2013
City: MADRID,
Jaime del Cerro Giner; Antonio Barrientos Cruz; David Sanz Muñoz; Joao Ricardo Pereira Valente. "Advances in Intelligent Systems and Computing.ROBOT2013: First Iberian Robotics Conference".pp. 457 - 468. ISBN 978-3-319-03412-6
- 11** **Title:** Lift Failure Detection and Management System for Quadrotors
Name of the conference: Advances in Intelligent Systems and Computing
Your role: Speaker
Date of the event: 28/11/2013
Juan Jesus Roldan; David Sanz Muñoz; Jaime del Cerro Giner; Antonio Barrientos Cruz. "ROBOT2013: First Iberian Robotics Conference. Advances in Robotics, Vol. 1".pp. 103 - 114. ISBN 978-3-319-03412-6
- 12** **Title:** Precision Humidity and Temperature Measuring in Farming Using Newer Ground Mobile Robots
Name of the conference: ROBOT2013: First Iberian Robotics Conference
Your role: Speaker
Date of the event: 28/11/2013
City: Madrid,
Leandro Miguel Cancar de Abreu Vega; David Sanz Muñoz; Jaime del Cerro Giner; Antonio Barrientos Cruz. "Advances in Intelligent Systems and Computing".pp. 443 - 456. ISBN 978-3-319-03412-6
- 13** **Title:** Optimization of Aerial Surveys using an Algorithm Inspired in Musicians Improvisation
Name of the conference: 23rd International Conference on Automated Planning and Scheduling (ICAPS'13), Proceedings of the 1st Workshop on Planning and Robotics (PlanRob)
Your role: Speaker
Date of the event: 10/06/2013
City: Roma,
Joao Ricardo Pereira Valente; Antonio Barrientos Cruz; Jaime del Cerro Giner. "ICAPS'13".pp. 72 - 78. ISBN 978-1-57735-609-7
- 14** **Title:** Optimization of Aerial Surveys using an Algorithm Inspired in Musicians Improvisation
Name of the conference: 23rd. International Conference on Automated Planning and Scheduling
Your role: Speaker
Date of the event: 10/06/2013
City: Roma (Italia),
Joao Ricardo Pereira Valente; Antonio Barrientos Cruz; Jaime del Cerro Giner.
- 15** **Title:** Risk analysis for UAV safe operations: A rationalization for an agricultural environment
Name of the conference: First International Conference on Robotics and associated High-technologies and Equipment for agriculture.
Your role: Speaker
Date of the event: 19/12/2012
City: Pisa (Italia),
David Sanz Muñoz; Joao Ricardo Pereira Valente; Jaime del Cerro Giner; Miguel Angel De Frutos Carro; Antonio Barrientos Cruz. "Applications of Automated Systems and robotics for crop protection in sustainable precision agriculture".pp. 235 - 240. ISBN 978-88-6741-021-7



- 16** **Title:** Non invasive moisture measurement in agricultural field using a rolling spherical robot.
Name of the conference: First International Conference on Robotics and Associated High-technologies and Equipment for Agriculture
Your role: Speaker
Date of the event: 19/09/2012
City: Pisa (Italy),
Juan David Hernandez Vega; David Sanz Muñoz; Jorge Barrientos Diez; Joao Ricardo Pereira Valente; Jaime del Cerro Giner; Antonio Barrientos Cruz. "Applications of Automated systems and robotics for crop protection in sustainable precision agriculture".pp. 229 - 234. ISBN 978-88-6741-021-7
- 17** **Title:** Cooperative multi-Robot system for infrastructure security tasks
Name of the conference: ICAART 2012 - International Conference on Agents and Artificial Intelligence
Your role: Speaker
Date of the event: 06/02/2012
City: Portugal,
Erik Hernández Serrato; Antonio Barrientos Cruz; Claudio Rossi; Jaime del Cerro Giner. "Proceedings of the 4th International Conference on Agents and Artificial Intelligence".pp. 313 - 316. ISBN 978-98-9842-596-6
- 18** **Title:** Practical issues and improvements in farmland coverage with aerial vehicles
Name of the conference: First Workshop on Research, Development and Education on Unmanned Aerial Systems (RED-UAS 2011)
Your role: Speaker
Date of the event: 30/11/2011
City: Seville, Spain,,
Joao Ricardo Pereira Valente; Antonio Barrientos Cruz; Jaime del Cerro Giner; Claudio Rossi; David Sanz Muñoz; Mario Andrei Garzon Oviedo. "First Workshop on Research, Development and Education on Unmanned Aerial Systems (RED-UAS 2011)".pp. 10 - 18. ISBN 978-84-615-6269-5
- 19** **Title:** Precision Agriculture without borders: Practical issues and improvements in farmland coverage with aerial vehicles
Name of the conference: Research, Development and Education on Unmanned Aerial Systems
Your role: Speaker
Date of the event: 30/11/2011
City: SEVILLE (SPAIN),
Joao Ricardo Pereira Valente; Antonio Barrientos Cruz; Jaime del Cerro Giner; David Sanz Muñoz; Mario Andrei Garzon Oviedo; Claudio Rossi. "RED-UAS 2011".pp. 10 - 18. ISBN 978-84-615-6269-5
- 20** **Title:** Planificación de trayectorias bi-objetivo en robótica aérea para agricultura de precisión
Name of the conference: Robot 2011
Your role: Speaker
Date of the event: 28/11/2011
City: Sevilla España,
David Sanz Muñoz; Antonio Barrientos Cruz; Jaime del Cerro Giner; Joao Ricardo Pereira Valente; Mario Andrei Garzon Oviedo; Claudio Rossi. "Robot 2011. Robotica experimental".pp. 66 - 71. ISBN 978-84-615-6787-4
- 21** **Title:** Techniques for Area Discretization and Coverage in Aerial Photography for Precision Agriculture employing mini quad-rotors
Name of the conference: first international workshop on Robotics and Associated High-Technologies and Equipment for Agriculture (RHEA-2011)
Your role: Speaker



Date of the event: 09/09/2011

City: Montpellier, France,

Joao Ricardo Pereira Valente; David Sanz Muñoz; Jaime del Cerro Giner; Claudio Rossi; Mario Andrei Garzon Oviedo; Juan David Hernandez Vega; Antonio Barrientos Cruz. "RHEA-2011".pp. 85 - 97. ISBN 978-84-615-6184-1

22 Title: A waypoint-based mission planner for a farmland coverage with an aerial robot - a precision farming tool

Name of the conference: 8th European Conference on Precision Agriculture 2011

Your role: Speaker

Date of the event: 11/07/2011

City: Prague, Czech Republic,

Joao Ricardo Pereira Valente; Antonio Barrientos Cruz; Jaime del Cerro Giner; David Sanz Muñoz. "PRECISION AGRICULTURE 2011".pp. 427 - 436. ISBN 978-80-904830-5-7

23 Title: A SECONDARY MISSION PLANNER RESTRICTED TO A PREDEFINED PRIOR MISSION

Name of the conference: Advanced Space Technologies in Robotics and Automation

Your role: Speaker

Date of the event: 12/04/2011

City: ESA/ESTEC, Noordwijk, the Netherlands,

David Sanz Muñoz; Antonio Barrientos Cruz; Claudio Rossi; Jaime del Cerro Giner; Mario Andrei Garzon Oviedo; Joao Ricardo Pereira Valente. "ASTRA 2011".pp. 1 - 6. ISBN no dispone <http://robotics.estec.esa.int/ASTRA/Ast>

24 Title: Estec testbed capabilities for the performance characterization of planetary rover localization sensors. First results on IMU investigations

Name of the conference: 11th Symposium on Advanced Space Technologies in Robotics and Automation

Your role: Speaker

Date of the event: 12/04/2011

City: ESA/ESTEC, Noordwijk, the Netherlands,

Javier Hildalgo; Pantelis Poulakis; Johan Köhler; Antonio Barrientos Cruz; Jaime del Cerro Giner. "ASTRA 2011".pp. 1 - 8.

25 Title: ANÁLISIS CINEMÁTICO DE PATRONES DE MOVIMIENTO PARA UN ROBOT TIPO GUSANO

Name of the conference: 8 Workshop Robots de Exteriores, Robocity 2030-II

Your role: Speaker

Date of the event: 02/12/2010

City: Madrid,

Mario Andrei Garzon Oviedo; Jaime del Cerro Giner; Claudio Rossi; Antonio Barrientos Cruz. "8 Workshop Robots de Exteriores, Robocity 2030-II".pp. 321 - 334. ISBN 978-84-614-5558-4

26 Title: DETECCIÓN E IDENTIFICACIÓN DE OBJETOS MÓVILES EN SISTEMAS MULTI-ROBOT CON INFORMACIÓN 3D

Name of the conference: 8 Workshop Robots de Exteriores, Robocity 2030-II

Your role: Speaker

Date of the event: 02/12/2010

City: Madrid,

Gonzalo Ruy Rodríguez Canosa; Jaime del Cerro Giner; Antonio Barrientos Cruz. "8 Workshop Robots de Exteriores, Robocity 2030-II".pp. 215 - 230. ISBN 978-84-614-5558-4



- 27** **Title:** SIMULACIÓN DE UN SISTEMA DE NAVEGACION PARA UN GRUPO DE ROBOTS DE EXTERIORES UTILIZANDO MICROSOFT ROBOTICS DEVELOPER STUDIO
Name of the conference: 8 Workshop Robots de Exteriores, Robocity 2030-II
Your role: Speaker
Date of the event: 02/12/2010
City: Madrid,
Antonio Alejandro Matta Gómez; Jaime del Cerro Giner; Antonio Barrientos Cruz. "8 Workshop Robots de Exteriores, Robocity 2030-II".pp. 199 - 214. ISBN 978-84-614-5558-4
- 28** **Title:** Follow-the-leader Formation Marching Through a Scalable $O(\log 2n)$ Parallel Architecture.
Name of the conference: IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2010
Your role: Speaker
Date of the event: 18/10/2010
City: Taipei, Taiwan,
Julian David Colorado Montaña; Claudio Rossi; Jaime del Cerro Giner; Antonio Barrientos Cruz. "Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems 2010".pp. 5583 - 5590. ISBN 978-1-4244-6674-0
- 29** **Title:** Diseño e Implementación de la Instrumentación para la Lectura de Variables Críticas en Aeronaves no Tripuladas (UAS)
Name of the conference: Congreso Latinoamericano de Control Automático CLCA 2010
Your role: Speaker
Date of the event: 24/08/2010
City: Santiago de Chile,
Miguel Angel Trigos Martínez; Antonio Barrientos Cruz; Jaime del Cerro Giner. "Congreso Latinoamericano de Control Automático CLCA 2010".pp. 1 - 8. ISBN 1870-4069
- 30** **Title:** EFFICIENT LOCOMOTION ON NON-WHEELED SNAKE-LIKE ROBOT
Name of the conference: International Conference on Informatics in Control, Automation and Robotics (ICINCO) 2010
Your role: Speaker
Date of the event: 15/06/2010
City: Funchal, Madeira, Portugal,
Claudio Rossi; Mario Andrei Garzon Oviedo; María Galán; Jaime del Cerro Giner. "Proceedings of the 7th International Conference on Informatics in Control, Automation and Robotics".pp. 246 - 251. ISBN 978-989-8425-01-0
- 31** **Title:** Modelling and controller design methodology for unmanned vertical take off and landing (UVTOL) vehicles
Name of the conference: International Symposium on Robotics 2008 (ISR08)
Your role: Speaker
Date of the event: 15/10/2008
City: Seul, Corea,
Antonio Barrientos Cruz; Rodrigo San Martín Muñoz; Claudio Rossi; Jaime del Cerro Giner; Pedro Gutierrez Mier; Alexander Martinez Alvarez. "International Symposium on Robotics 2008".pp. 50 - 55. ISBN 978-84-9209-338-0
- 32** **Title:** Modelling and controller prototyping for unmanned vertical take off and landing (UVTOL) vehicles
Name of the conference: 20th European Modeling and Simulation Symposium (EMSS 2008)
Your role: Speaker
Date of the event: 17/09/2008



City: Italia,

Antonio Barrientos Cruz; Rodrigo San Martín Muñoz; Claudio Rossi; Jaime del Cerro Giner; Pedro Gutierrez Mier; Alexander Martinez Alvarez. "20th European Modeling and Simulation Symposium".pp. 738 - 743. ISBN 978-88-903724-0-7

- 33** **Title:** Planning biobjective paths in aerial robotics for precision agriculture
Name of the conference: Robot 2011 Robotics Workshop III. Experimental Robotics
Your role: Speaker
City: Sevilla, España,
David Sanz Muñoz; Jaime del Cerro Giner; Joao Ricardo Pereira Valente; Mario Andrei Garzon Oviedo; Antonio Barrientos Cruz.

Other publishing activities.

- 1** **Title or object:** WHAT IS THE OPTIMAL STITCHING ORIENTATION FROM AN AERIAL SURVEY PERSPECTIVE RHEA 2014
Type of event: Conferences given
City of the publishing body: Madrid, Unknown
Joao Ricardo Pereira Valente; Jaime del Cerro Giner; Antonio Barrientos Cruz. ISBN 978-84-697-0248-2
- 2** **Title or object:** Diagnóstico de Fallos de Sistemas Híbridos Modelado con Redes de Petri y Aplicado a un UAV (Unmanned Aerial Vehicle)
Type of event: Conferences given
City of the publishing body: Bucaramanga - Santander, Colombia
Organising body: Universitaria de Investigación y Desarrollo
Miguel Angel Trigos Martínez; Antonio Barrientos Cruz; Jaime del Cerro Giner. ISBN 00

Other credits

Grants and scholarships obtained

Membership of thematic networks after selection processes

- 1** **Name:** Miembro del Comité Español de Automática.
Start date: 01/01/2013
- 2** **Name:** Miembro del grupo de Innovación Educativa en Automática (GIE-9)