



ROQUE JACINTO SALTAREN PAZMIÑO

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**ROQUE JACINTO SALTAREN PAZMIÑO**

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Current professional situation

Employing entity: Universidad Politécnica de Madrid **Type of entity:** University

Department: CENTRO DE AUTOMAT. Y ROBOTICA (CAR), CENTRO DE ACUSTICA APLICADA Y EVALUACION NO DESTRUCTIVA

Professional category: Miembro

City employing entity: Madrid, Spain

Email: roquejacinto.saltaren@upm.es

Start date: 08/07/2009

Employing entity: Universidad Politécnica de Madrid **Type of entity:** University

Department: CENTRO DE AUTOMAT. Y ROBOTICA (CAR), CENTRO DE ACUSTICA APLICADA Y EVALUACION NO DESTRUCTIVA

Professional category: Profesor Titular de Universidad

City employing entity: Madrid, Spain

Email: roquejacinto.saltaren@upm.es

Start date: 08/07/2009

Employing entity: Universidad Politécnica de Madrid **Type of entity:** University

Department: AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL, E.T.S. DE INGENIEROS INDUSTRIALES

Professional category: Titular Universidad

City employing entity: Madrid, Spain

Email: roquejacinto.saltaren@upm.es

Start date: 13/11/2008

Dedication regime: Full time

Employing entity: Universidad Politécnica de Madrid

Department: Automática, Ingeniería Eléctrica y Electrónica e Informática Industrial, Escuela Técnica Superior de Ingenieros Industriales

Professional category: Profesor Titular de Universidad

Start date: 01/11/2008

Type of contract: Civil servant

Dedication regime: Full time



Primary (UNESCO code): 330412 - Control devices; 330417 - Real-time systems; 331101 - Automation technology; 331102 - Control engineering; 331114 - Servomechanisms
Secondary (UNESCO code): 220500 - Mechanics; 331311 - Hydraulic machinery; 331315 - Machine design; 331322 - Pneumatic equipment; 331327 - Specialized industrial machinery
Tertiary (UNESCO code): 220501 - Analytical mechanics; 220504 - Fluid mechanics; 220505 - Friction
Identify key words: Mechanical aeronautics and naval engineering; Robotics; Automatization and instrumentation; Control; Perception

Employing entity: Universidad Politécnica de Madrid **Type of entity:** University

Department: Automática, Ingeniería Eléctrica y Electrónica e Informática Industrial, Escuela Técnica Superior de Ingenieros Industriales

Professional category: Profesor Titular de Universidad

Start date: 01/12/2003

Type of contract: Temporary

Dedication regime: Full time

Primary (UNESCO code): 331102 - Control engineering; 331114 - Servomechanisms; 331115 - Telechiric techniques; 331315 - Machine design

Identify key words: Robotics; Automatization and instrumentation; Control; Perception

Employing entity: Universidad Politécnica de Madrid **Type of entity:** University

Department: Automática, Ingeniería Eléctrica y Electrónica e Informática Industrial, Escuela Técnica Superior de Ingenieros Industriales

Professional category: Investigador Ramón y Cajal

Start date: 01/01/2002

Type of contract: Grant-assisted student (pre or post-doctoral, others)

Employing entity: Universidad Politécnica de Cartagena **Type of entity:** University

Department: Escuela Técnica Superior de Ingeniería Industrial

Professional category: Profesor Asociado T3

Start date: 01/09/1999

Type of contract: Profesor Asociado Tipo-3

Dedication regime: Full time

Primary (UNESCO code): 331101 - Automation technology; 331102 - Control engineering; 331114 - Servomechanisms

Secondary (UNESCO code): 220501 - Analytical mechanics; 331115 - Telechiric techniques

Performed tasks: Profesor de tiempo completo de las asignatura de automatización y robótica

Identify key words: Robotics; Automatization and instrumentation; Control

Employing entity: Universidad Miguel Hernández de Elche **Type of entity:** University

Department: Automática, Escuela Politécnica Superior de Elche

Professional category: Profesor invitado

Start date: 01/10/1998

Type of contract: Temporary employment contract

Identify key words: Robotics; Automatization and instrumentation; Control; Perception

Employing entity: Universidad de los Andes **Type of entity:** University

Department: Facultad de Ingeniería

Professional category: Profesor Asistente

Start date: 01/01/1990

Dedication regime: Full time



Type of contract: Permanent employment contract

Primary (UNESCO code): 331309 - Gears; 331311 - Hydraulic machinery; 331312 - Industrial machinery and equipment; 331315 - Machine design; 331323 - Power transmission equipment (mechanical)

Identify key words: Pnaumatic equipment; Hydraulic equipment; Machine design; Robotics

Previous positions and activities

	Employing entity	Professional category	Start date
1	Optimas Komninos-York International: Bogota, Colombia	Director Técnico	01/03/1981
2	Ingemel, Ingenieros Consultores	Ingeniero de cálculos térmicos	04/05/1980

1 **Employing entity:** Optimas Komninos-York International: Bogota, Colombia **Type of entity:** Business
Professional category: Director Técnico
Start-End date: 01/03/1981 - 30/03/1986

2 **Employing entity:** Ingemel, Ingenieros Consultores **Type of entity:** Business
Professional category: Ingeniero de cálculos térmicos
Start-End date: 04/05/1980 - 28/02/1981



Education

University education

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

- 1 **University degree:** Higher degree
Name of qualification: Master Ingeniería Eléctrica
Degree awarding entity: Universidad de Los Andes, **Type of entity:** University
 Bogotá Colombia
Date of qualification: 15/05/1990

- 2 **University degree:** Higher degree
Name of qualification: Ingeniero Industrial Especialidad Electrónica y Automática
Degree awarding entity: Universidad del Valle, Colombia (Homologado España)
Date of qualification: 04/04/1980

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	B2	C1	B1	B2	B1

Teaching experience

General teaching experience

- 1 **Type of teaching:** Official teaching
Name of the course: FUNDAMENTOS DE AUTOMÁTICA
Professional category: Docente
University degree: GRADO EN INGENIERIA DE ORGANIZACION
Course given: 3
Start date: 2017 **End date:** 2022
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 4,5
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL
Subject language: Spanish

- 2 **Type of teaching:** Official teaching
Name of the course: AUTOMATIZACIÓN Y CONTROL
Professional category: Docente
University degree: D.M.U. EN INGENIERÍA INDUSTRIAL Y EN CIENCIA Y TECNOLOGÍA NUCLEAR



Course given: 1

Start date: 2020

End date: 2021

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL

Subject language: Spanish

3 Type of teaching: Official teaching

Name of the course: DISEÑO Y CONTROL DE ROBOTS

Professional category: Docente

University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA

Course given: 1

Start date: 2017

End date: 2021

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL

Subject language: Spanish

4 Type of teaching: Official teaching

Name of the course: AUTOMATIZACION Y CONTROL

Professional category: Docente

University degree: MASTER UNIVERSITARIO EN INGENIERIA INDUSTRIAL

Course given: 1

Start date: 2014

End date: 2021

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

5 Type of teaching: Official teaching

Name of the course: RETOS EN AUTOMÁTICA Y ROBÓTICA

Professional category: Docente

University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA

Course given: 1

Start date: 2017

End date: 2020

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL

Subject language: Spanish

6 Type of teaching: Official teaching

Name of the course: LABORATORIO DE AUTOMÁTICA Y ROBÓTICA

Professional category: Docente



University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA

Course given: 1

Start date: 2017

End date: 2018

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 6

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL

7 Type of teaching: Official teaching

Name of the course: AVANCES EN ROBOTICA

Professional category: Docente

University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA

Course given: 1

Start date: 2015

End date: 2017

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL

Subject language: Spanish

8 Type of teaching: Official teaching

Name of the course: DINAMICA Y CONTROL DE ROBOTS

Professional category: Docente

University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA

Course given: 1

Start date: 2013

End date: 2017

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

9 Type of teaching: Official teaching

Name of the course: DISEÑO DE ROBOTS

Professional category: Docente

University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA

Course given: 1

Start date: 2013

End date: 2017

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

10 Name of the course: Dinámica y Control de Robots

University degree: Master Universitario en Automática y Robótica

Start date: 01/09/2009

End date: 22/12/2016



Entity: Universidad Politécnica de Madrid **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales

- 11 Name of the course:** Diseño de Robots
University degree: Master Universitario en Automática y Robótica
Start date: 01/09/2009 **End date:** 22/12/2016
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales
- 12 Name of the course:** Automatización y Control
University degree: Master Universitario en Ingeniería Industrial
Start date: 12/2014 **End date:** 12/2016
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales
- 13 Name of the course:** Automatización de los Sistemas de Producción
University degree: Ingeniero Industrial Especialidad Automática y Electrónica Industrial
Start date: 09/2007 **End date:** 12/2016
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales
- 14 Name of the course:** Robots Paralelos
University degree: Master Universitario en Automática y Robótica
Start date: 02/2010 **End date:** 06/2016
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales
- 15 Type of teaching:** Official teaching
Name of the course: AVANCES EN PERCEPCION
Professional category: Docente
University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA
Course given: 1
Start date: 2015 **End date:** 2016
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL
Subject language: Spanish
- 16 Type of teaching:** Official teaching
Name of the course: ROBOTS PARALELOS
Professional category: Docente
University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA
Course given: 1
Start date: 2015 **End date:** 2016
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 1
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL



Subject language: Spanish

- 17** **Type of teaching:** Official teaching
Name of the course: SISTEMAS DE PRODUCCION AUTOMATIZADOS
Professional category: Docente
University degree: GRADO EN INGENIERIA DE ORGANIZACION
Course given: 4
Start date: 2015 **End date:** 2016
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL
- 18** **Type of teaching:** Official teaching
Name of the course: SISTEMAS DE PRODUCCION AUTOMATIZADOS
Professional category: Docente
University degree: GRADO EN INGENIERIA ELECTRONICA INDUSTRIAL Y AUTOMATICA
Course given: 4
Start date: 2015 **End date:** 2016
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL
- 19** **Name of the course:** Sistema de Producción Automatizados
University degree: Ingeniero Industrial Intensificación Organización
Start date: 09/2015 **End date:** 12/2015
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales
- 20** **Type of teaching:** Official teaching
Name of the course: AUTOMATIZACION DE LOS SISTEMAS DE PRODUCCION
Professional category: Docente
University degree: INGENIERO INDUSTRIAL
Course given: 5
Start date: 2010 **End date:** 2015
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL
Subject language: Spanish
- 21** **Type of teaching:** Official teaching
Name of the course: AUTOMATIZACION DE LOS SISTEMAS DE PRODUCCION
Professional category: Docente
University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA
Start date: 2013 **End date:** 2014
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID



Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

22 Type of teaching: Official teaching

Name of the course: TECNOLOGIA DE AUTOMATIZACION II

Professional category: Docente

University degree: INGENIERO INDUSTRIAL

Course given: 5

Start date: 2012

End date: 2014

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

23 Type of teaching: Official teaching

Name of the course: ROBOTS PARALELOS

Professional category: Docente

University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA

Course given: 1

Start date: 2010

End date: 2014

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 1

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

24 Name of the course: Electrónica y Regulación Automática

University degree: Ingeniero Industrial Especialidad Mecánica (Intensificación Máquinas)

Start date: 02/2009

End date: 06/2013

Entity: Universidad Politécnica de Madrid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales

25 Type of teaching: Official teaching

Name of the course: ELECTRONICA Y REGULACION AUTOMATICA

Professional category: Docente

University degree: INGENIERO INDUSTRIAL

Course given: 4

Start date: 2012

End date: 2013

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

26 Type of teaching: Official teaching

Name of the course: DISEÑO DE ROBOTS

Professional category: Docente

University degree: DOCTORADO EN AUTOMATICA Y ROBOTICA

Course given: 1

Start date: 2011

End date: 2013



Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

27 Type of teaching: Official teaching

Name of the course: TRABAJO FIN DE MASTER

Professional category: Docente

University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA

Course given: 1

Start date: 2011

End date: 2013

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 30

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

28 Type of teaching: Official teaching

Name of the course: DINAMICA Y CONTROL DE ROBOTS

Professional category: Docente

University degree: DOCTORADO EN AUTOMATICA Y ROBOTICA

Course given: 1

Start date: 2010

End date: 2013

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

29 Type of teaching: Official teaching

Name of the course: DINAMICA Y CONTROL DE ROBOTS

Professional category: Docente

University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA

Course given: 1

Start date: 2010

End date: 2013

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

30 Type of teaching: Official teaching

Name of the course: ELECTRONICA Y REGULACION AUTOMATICA

Professional category: Docente

University degree: INGENIERO INDUSTRIAL

Course given: 4



Start date: 2010

End date: 2013

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

31 Type of teaching: Official teaching

Name of the course: SISTEMAS DE PRODUCCION INTEGRADOS

Professional category: Docente

University degree: INGENIERO EN AUTOMATICA Y ELECTRONICA INDUSTRIAL

Course given: 2

Start date: 2011

End date: 2012

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

32 Type of teaching: Official teaching

Name of the course: DISEÑO DE ROBOTS

Professional category: Docente

University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA

Course given: 1

Start date: 2010

End date: 2012

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

33 Type of teaching: Official teaching

Name of the course: ROBOTS PARALELOS

Professional category: Docente

University degree: DOCTORADO EN AUTOMATICA Y ROBOTICA

Course given: 1

Start date: 2010

End date: 2012

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 1

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

34 Type of teaching: Official teaching

Name of the course: AUTOMATIZACION DE LOS SISTEMAS DE PRODUCCION

Professional category: Docente

University degree: MASTER UNIVERSITARIO EN AUTOMATICA Y ROBOTICA

Start date: 2010

End date: 2011

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 6

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID



Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

35 Type of teaching: Official teaching

Name of the course: DINAMICA Y CONTROL DE ROBOTS

Professional category: Docente

University degree: MASTER EN AUTOMATICA Y ROBOTICA

Course given: 2

Start date: 2010

End date: 2011

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

36 Type of teaching: Official teaching

Name of the course: DISEÑO DE ROBOTS

Professional category: Docente

University degree: MASTER EN AUTOMATICA Y ROBOTICA

Course given: 2

Start date: 2010

End date: 2011

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

37 Type of teaching: Official teaching

Name of the course: ROBOTS PARALELOS

Professional category: Docente

University degree: MASTER EN AUTOMATICA Y ROBOTICA

Course given: 2

Start date: 2010

End date: 2011

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 1

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMATICA, ING ELECTRONICA E INFORMATICA INDUSTRIAL

Subject language: Spanish

38 Name of the course: Ingeniería de Sistemas de Computación

University degree: Ingeniero Industrial Especialidad Automática y Electrónica Industrial

Start date: 02/2007

End date: 06/2010

Entity: Universidad Politécnica de Madrid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales



39 Name of the course: Teoría de Sistemas
University degree: Ingeniero Industrial Especialidad Automática y Electrónica Industrial
Start date: 09/2009 **End date:** 12/2009
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales

40 Name of the course: Sistemas Informáticos en Tiempo Real
University degree: Ingeniero Industrial Especialidad Automática y Electrónica Industrial
Start date: 02/2009 **End date:** 06/2009
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Control de posición con compensación dinámica y implementación de su instalación eléctrica
Type of project: Work leading to an ASD
Co-director of thesis: SALTAREN PAZMIÑO, ROQUE JACINTO
Entity: E.T.S.I. Industriales (UPM) **Type of entity:** University
City of entity: Community of Madrid, Spain
Student: Tang, Yaru
Date of reading: 01/07/2020
- 2 Project title:** Cable-driven Parallel Robot to Simulate the Underwater Environment in Humanoids
Type of project: Doctoral thesis
Co-director of thesis: Saltaren Pazmino, Roque
Entity: E.T.S.I. Industriales (UPM) **Type of entity:** University
City of entity: Community of Madrid, Spain
Student: Rodríguez Barroso, Alejandro
Date of reading: 01/01/2020
- 3 Project title:** Dinámica y control para la locomoción estable de robots con patas en entornos subacuáticos
Type of project: Doctoral thesis
Co-director of thesis: Saltaren Pazmino, Roque
Entity: E.T.S.I. Industriales (UPM) **Type of entity:** University
City of entity: Community of Madrid, Spain
Student: Portilla Tuesta, Gerardo Alejandro
Date of reading: 01/01/2020
- 4 Project title:** Modelado músculo-esquelético del miembro superior y desarrollo del sistema de control de un dispositivo de rehabilitación de hombro
Type of project: Doctoral thesis
Co-director of thesis: GARCIA CENA, CECILIA ELISABET; SALTAREN PAZMIÑO, ROQUE JACINTO
Entity: Universidad Politécnica de Madrid. E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERIA ELECTRONICA E INFORMÁTICA INDUSTRIAL **Type of entity:** University
City of entity: Community of Madrid, Spain
Student: Destarac Eguizabal, Marie André
Date of reading: 01/01/2018



- 5** **Project title:** TD: Contribución al diseño de robots exoesqueléticos de rehabilitación
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Jesús Varela Sonz
Date of reading: 10/10/2017
- 6** **Project title:** Contribución al diseño de robots exoesqueléticos de rehabilitación
Type of project: Doctoral thesis
Co-director of thesis: SALTAREN PAZMIÑO, ROQUE JACINTO
Entity: Universidad Politécnica de Madrid. E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL **Type of entity:** University
City of entity: Community of Madrid, Spain
Student: Varela Sanz, Jesús
Date of reading: 01/01/2017
- 7** **Project title:** TD: Design and Control of a Transformable Anthropoid Robot for Underwater Works
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Gonzalo Ejarque
Date of reading: 10/2016
- 8** **Project title:** Análisis de señales EEG para detección de eventos oculares, musculares y cognitivos
Type of project: Work leading to an ASD
Co-director of thesis: GARCIA CENA, CECILIA ELISABET; SALTAREN PAZMIÑO, ROQUE JACINTO
Entity: E.T.S.I. Industriales (UPM) **Type of entity:** University
City of entity: Community of Madrid, Spain
Student: Gómez Figueroa, Leonardo José
Identify key words: Electronic
Date of reading: 12/09/2016
- 9** **Project title:** Desarrollo de un dispositivo háptico con reflexión de esfuerzos y con percepción inercial y de proximidad.
Type of project: Work leading to an ASD
Co-director of thesis: SALTAREN PAZMIÑO, ROQUE JACINTO
Entity: E.T.S.I. Industriales (UPM) **Type of entity:** University
City of entity: Community of Madrid, Spain
Student: García De La Fuente, Alejandro
Date of reading: 03/03/2016
- 10** **Project title:** TD: Advanced Control Strategies for a 6 DoF Hydraulic Parallel Robot Based on the Dynamic Model
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Lisandro Puglisi
Date of reading: 02/2016
- 11** **Project title:** TD: Contribución al análisis cinemático y dinámico de manipuladores paralelos
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Pedro Cardenas
Date of reading: 02/2016



- 12** **Project title:** Advanced Control Strategies for a 6 DoF Hydraulic Parallel Robot Based on the Dynamic Model
Type of project: Doctoral thesis
Co-director of thesis: GARCIA CENA, CECILIA ELISABET; SALTAREN PAZMIÑO, ROQUE JACINTO
Entity: Universidad Politécnica de Madrid. E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL
Type of entity: University
City of entity: Community of Madrid, Spain
Student: Puglisi, Lisandro José
Date of reading: 01/01/2016
- 13** **Project title:** Contribución al análisis cinemático y dinámico de manipuladores paralelos
Type of project: Doctoral thesis
Co-director of thesis: SALTAREN PAZMIÑO, ROQUE JACINTO
Entity: Universidad Politécnica de Madrid. E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELECTRÓNICA E INFORMÁTICA INDUSTRIAL
Type of entity: University
City of entity: Community of Madrid, Spain
Student: Cárdenas Herrera, Pedro Fabián
Date of reading: 01/01/2016
- 14** **Project title:** Design and Control of a Transformable Anthropoid Robot for Underwater Works
Type of project: Doctoral thesis
Co-director of thesis: SALTAREN PAZMIÑO, ROQUE JACINTO
Entity: Universidad Politécnica de Madrid. E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELÉCTRICA Y ELECTRÓNICA E INFORMÁTICA INDUSTRIAL
Type of entity: University
City of entity: Community of Madrid, Spain
Student: Ejarque Rinaldini, Gonzalo
Date of reading: 01/01/2016
- 15** **Project title:** Diseño y desarrollo de un robot de cirugía para operaciones estereotácticas
Type of project: End of course project
Co-director of thesis: Saltaren Pazmino, Roque
Entity: E.T.S.I. Industriales (UPM)
Type of entity: University
City of entity: Community of Madrid, Spain
Student: Rodríguez Barroso, Alejandro
Identify key words: Electronic; Medicine
Date of reading: 01/10/2015
- 16** **Project title:** TD: Diseño, Construcción y Control de un Robot Doméstico para Asistencia y Entrenamiento de la Movilidad.
Entity: Universidad Politécnica de Madrid
Type of entity: University
Student: Isela Carrera
Date of reading: 05/2013
- 17** **Project title:** TD: Modelado, Control y Diseño de Robots Submarinos de Estructura Paralela con Impulsores Vectorizados.
Entity: Universidad Politécnica de Madrid
Type of entity: University
Student: Hector Moreno



Date of reading: 05/2013

18 Project title: Diseño, Construcción y Control de un Robot Doméstico para Asistencia y Entrenamiento de la Movilidad.

Type of project: Doctoral thesis

Co-director of thesis: SALTAREN PAZMIÑO, ROQUE JACINTO; ARACIL SANTONJA, RAFAEL

Entity: Universidad Politécnica de Madrid. E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERIA ELECTRONICA E INFORMÁTICA INDUSTRIAL

Type of entity: University

City of entity: Community of Madrid, Spain

Student: Carrera Calderon, Isela Guadalupe

Date of reading: 01/01/2013

19 Project title: Modelado, control y diseño de robots submarinos de estructura paralela con impulsores vectorizados.

Type of project: Doctoral thesis

Co-director of thesis: SALTAREN PAZMIÑO, ROQUE JACINTO; ARACIL SANTONJA, RAFAEL

Entity: E.T.S.I. Industriales (UPM)

Type of entity: University

City of entity: Community of Madrid, Spain

Student: Moreno Avalos, Hector

Date of reading: 01/01/2013

20 Project title: Sobre el modelado, diseño y control de robots submarinos con impulsores vectorizados de estructura paralela

Type of project: Doctoral thesis

Entity: Universidad Politécnica de Madrid

Type of entity: University

City of entity: Madrid, Community of Madrid, Spain

Student: Héctor A. Moreno Avalos

Date of reading: 01/01/2013

Date of award: 2013

21 Project title: TD: Diseño y Desarrollo de un Robot de Inspección de Tuberías

Entity: Universidad Politécnica de Madrid

Type of entity: University

Student: Maria Alejandra Urdaneta

Date of reading: 12/2012

22 Project title: Diseño y Desarrollo de un Robot de Inspección de Tuberías.

Type of project: Doctoral thesis

Co-director of thesis: GARCIA CENA, CECILIA ELISABET; SALTAREN PAZMIÑO, ROQUE JACINTO

Entity: Universidad Politécnica de Madrid. E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERIA ELECTRONICA E INFORMÁTICA INDUSTRIAL

Type of entity: University

City of entity: Community of Madrid, Spain

Student: Urdaneta Lima, María

Date of reading: 01/01/2012

23 Project title: Diseño, construcción y control de un robot doméstico para asistencia y entrenamiento de la movilidad

Type of project: Doctoral thesis

Co-director of thesis: SALTAREN PAZMIÑO, ROQUE JACINTO; ARACIL SANTONJA, RAFAEL



Entity: E.T.S.I. Industriales (UPM)
City of entity: Community of Madrid, Spain
Student: Carrera Calderon, Isela Guadalupe
Date of reading: 01/01/2011

Type of entity: University

- 24** **Project title:** TD: Espacio de Trabajo y Singularidades en Robots Paralelos: Desarrollo, Análisis y Aplicación al Robot Tropa.

Entity: Universidad Politécnica de Madrid
Student: Maria Antonietta Scarano
Date of reading: 06/2010

Type of entity: University

- 25** **Project title:** Espacio de trabajo y singularidades en robots paralelos : desarrollo, análisis y aplicación al robot Tropa.

Type of project: Doctoral thesis

Co-director of thesis: SALTAREN PAZMIÑO, ROQUE JACINTO; ARACIL SANTONJA, RAFAEL

Entity: Universidad Politécnica de Madrid. E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERIA ELECTRONICA E INFORMÁTICA INDUSTRIAL

Type of entity: University

City of entity: Community of Madrid, Spain
Student: Scarano Roo, María Antonietta
Date of reading: 01/01/2010

- 26** **Project title:** TD: Control bilateral por convergencia de estados para sistemas teleoperados con robots de cinemática diferente

Entity: Universidad Politécnica de Madrid
Student: Cesar Augusto Peña
Date of reading: 10/2009

Type of entity: University

- 27** **Project title:** Control bilateral por convergencia de estados para sistemas teleoperados con robots de cinemática diferente

Type of project: Doctoral thesis

Entity: Universidad Politécnica de Madrid
City of entity: Madrid, Community of Madrid, Spain
Student: César Augusto Peña Cortés
Date of reading: 01/01/2009
Date of award: 2009

Type of entity: University

- 28** **Project title:** TD: Modelado Matemático y Control Vectorial de Robots Submarinos de Geometría Variable

Entity: Universidad Politécnica de Madrid
Student: Eugenio Yime
Date of reading: 06/2008

Type of entity: University

- 29** **Project title:** Concepción y desarrollo de un vehículo submarino robótico de estructura paralela de geometría variable.

Type of project: Doctoral thesis

Co-director of thesis: SALTAREN PAZMIÑO, ROQUE JACINTO; ARACIL SANTONJA, RAFAEL

Entity: Universidad Politécnica de Madrid. E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERIA ELECTRONICA E INFORMÁTICA INDUSTRIAL

Type of entity: University

City of entity: Community of Madrid, Spain



Student: Alvarez Rocha, César Francisco
Date of reading: 01/01/2008

30 Project title: Modelado matemático y control vectorial de robots submarinos de geometría variables.

Type of project: Doctoral thesis

Co-director of thesis: SALTAREN PAZMIÑO, ROQUE JACINTO; ARACIL SANTONJA, RAFAEL

Entity: Universidad Politécnica de Madrid. E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELECTRÓNICA E INFORMÁTICA INDUSTRIAL

Type of entity: University

City of entity: Community of Madrid, Spain

Student: Yime Rodríguez, Eugenio

Date of reading: 01/01/2008

31 Project title: Control visual de robots paralelos : análisis, desarrollo y aplicación a la plataforma RoboTenis

Type of project: Doctoral thesis

Co-director of thesis: SEBASTIAN Y ZUÑIGA, José María; SALTAREN PAZMIÑO, ROQUE JACINTO

Entity: E.T.S.I. Industriales (UPM)

Type of entity: University

City of entity: Community of Madrid, Spain

Student: Ángel Silva, Luis

Identify key words: Mechanics; Electronic

Date of reading: 01/01/2005

32 Project title: Control visual de robots paralelos. Análisis, desarrollo y aplicación a la plataforma robotenis

Type of project: Doctoral thesis

Co-director of thesis: SEBASTIAN Y ZUÑIGA, José María; SALTAREN PAZMIÑO, ROQUE JACINTO

Entity: Universidad Politécnica de Madrid. E.T.S. DE INGENIEROS INDUSTRIALES. AUTOMÁTICA, INGENIERÍA ELECTRÓNICA E INFORMÁTICA INDUSTRIAL

Type of entity: University

City of entity: Community of Madrid, Spain

Student: Angel Silva. Luís

Date of reading: 01/01/2005

33 Project title: Desarrollo de una interfaz kinestésica paralela y experimentación en control de sistemas hápticos y teleoperados

Type of project: Doctoral thesis

Entity: Universidad Miguel Hernández

Type of entity: University Research Institute

City of entity: Elche, Valencian Community, Spain

Student: José María Sabater Navarro

Date of reading: 01/01/2003

Date of award: 2003

34 Project title: Modelado, simulación y control de movimiento de robots paralelos trepadores

Type of project: Doctoral thesis

Entity: Universidad Miguel Hernández

Type of entity: University Research Institute

City of entity: Elche, Valencian Community, Spain

Student: Miguel Almonacid Kroeger

Date of reading: 01/01/2002

Date of award: 2002



Educational or pedagogical publications, books, articles, etc.

- 1** Roque Saltaren; Lisandro Puglisi; Jose Maria Sabater; Eugenio Yime. ROBÓTICA APLICADA UTILIZANDO MATLAB . ANÁLISIS Y DISEÑO DE ROBOTS. ISBN 978-84-16397-51-8, 1, Universidad Miguel Hernández. Departamento de Ingeniería, 2000.
Name of the materials: Libro
Date of drafting: 01/2000
Format: Book
Corresponding author: Yes
- 2** Roque Saltaren; Jose Maria Sabater; Jose María Azorin. Prácticas de Robótica con Matlab. ISBN 8495315599, 1, Universidad Miguel Hernández. Departamento de Ingeniería, 2000.
Name of the materials: Libro
Date of drafting: 01/2000
Format: Handbook
Corresponding author: Yes

Scientific and technological experience

Scientific or technological activities

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

- 1** **Name of the project:** GRob-UPM. RoboCity2030 - Madrid Robotics Digital Innovation Hub
Geographical area: Regional
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Barrientos Cruz, Antonio
Funding entity or bodies:
Comunidad de Madrid **Type of entity:** Body, others
City funding entity: Madrid, Community of Madrid, Spain
Type of participation: Team member
Start-End date: 01/01/2019 - 31/12/2022 **Duration:** 4 years
Participating entity/entities: CSIC - Consejo Superior de Investigaciones Científicas; Universidad Nacional de Educación a Distancia (UNED); Universidad Politécnica de Madrid; Universidad Rey Juan Carlos (URJC); Universidad de Alcalá de Henares
Total amount: 96.600 €
- 2** **Name of the project:** Escáner funcional de cerebro no invasivo y portátil
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): GARCIA CENA, CECILIA ELISABET
Funding entity or bodies:
Ministerio de Ciencia e Innovación (MICINN) **Type of entity:** State agency
City funding entity: 28027-Madrid, Spain
Type of participation: Team member



Code according to the funding entity: EIN2020-112482

Start-End date: 01/11/2020 - 31/10/2022

Duration: 1 year - 11 months - 30 days

Participating entity/entities: Universidad Politécnica de Madrid

Total amount: 15.000 €

- 3 Name of the project:** Underwater Hybrid Legged Robot for research on kinematics, dynamics and control during the locomotion on the seabed

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Name principal investigator (PI, Co-PI....): GARCIA CENA, CECILIA ELISABET; SALTAREN PAZMIÑO, ROQUE JACINTO

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: Body, others

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Principal investigator

Code according to the funding entity: PGC2018-095939-B-I00

Start-End date: 01/01/2019 - 30/09/2022

Duration: 3 years - 8 months - 30 days

Participating entity/entities: Universidad Politécnica de Madrid

Total amount: 173.635 €

- 4 Name of the project:** Masterplan for OPS in Spanish ports

Geographical area: Non EU International

Degree of contribution: Coordinator of total project, network or consortium

Name principal investigator (PI, Co-PI....): SALTAREN PAZMIÑO, ROQUE JACINTO

Funding entity or bodies:

Comisión Europea

Type of entity: Business

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Principal investigator

Start-End date: 01/11/2016 - 30/06/2021

Duration: 4 years - 7 months - 29 days

Participating entity/entities: SEAPLACE, S.L.; Universidad Politécnica de Madrid; Universidad de las Palmas de Gran Canaria

Total amount: 135.000 €

- 5 Name of the project:** Proyecto Europeo H2020: "Masterplan for OPS in Spanish ports" ("the action"), action number 2015-EU-TM-0417-S as described in Annex I. (Subproyecto MANDATE 10)

Entity where project took place: Puertos del Estado/EU

City of entity: Madrid, Community of Madrid, Spain

Nº of researchers: 1

Funding entity or bodies:

Union Europea

Type of entity: State agency

City funding entity: Bruselas

Start-End date: 15/11/2016 - 11/2019

Total amount: 200.000 €

- 6 Name of the project:** Robot Actuado por Cables para investigar y desarrollar el control cinemático y dinámico de sistema robotizados en baja gravedad: Aplicación a robots humanoides submarinos

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Name principal investigator (PI, Co-PI....): SALTAREN PAZMIÑO, ROQUE JACINTO

Funding entity or bodies:



Ministerio de Economía y Competitividad
(MINECO/SEIDI)

Type of entity: Body, others

Type of participation: Principal investigator

Code according to the funding entity: DPI2014-57220-C2-1-P

Start-End date: 01/01/2015 - 31/12/2018

Duration: 4 years

Total amount: 191.180 €

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

Geographical area: Regional

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): ARACIL SANTONJA, RAFAEL

Funding entity or bodies:

Comunidad de Madrid

Type of entity: Body, others

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member

Start-End date: 01/10/2014 - 30/09/2018

Duration: 4 years

Participating entity/entities: Grupo CSIC RoboCity2030-III. Centro de Automática y Robótica (CAR) - CSIC; Grupo GRVA. Universidad Nacional de Educación a Distancia (UNED); Grupo ROB. Universidad Rey Juan Carlos (URJC); Grupo Robe-Safe. Universidad de Alcalá de Henares (UAH); Universidad Politécnica de Madrid

Total amount: 153.871,9 €

8 Name of the project: RobCABLE: Robot Actuado por Cables para investigar y desarrollar el control cinemático y dinámico de sistema robotizados en baja gravedad: Aplicación a robots humanoides submarinos

Entity where project took place: Universidad Politécnica de Madrid

Type of entity: University

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Roque Saltaren; Cecilia Garcia; Pedro Castedo; Luis Davila

Nº of researchers: 5

Funding entity or bodies:

Ministerio de Economía Industria y Competitividad

Type of entity: State agency

Start-End date: 01/01/2014 - 31/12/2017

Total amount: 154.000 €

9 Name of the project: soulBOT: Desarrollo práctico y experimental de un modelo de control basado en comportamientos innatos aplicado a robots

Entity where project took place: Universidad Politécnica de Madrid

Type of entity: University

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Roque Saltaren; Cecilia Garcia

Nº of researchers: 2

Funding entity or bodies:

Ministerio de Economía Industria y Competitividad

Type of entity: State agency

Start-End date: 01/01/2013 - 31/12/2017

Total amount: 54.000 €

- 10 Name of the project:** Desarrollo práctico y experimental de un modelo de control basado en comportamientos innatos aplicado a robots
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): SALTAREN PAZMIÑO, ROQUE JACINTO
Funding entity or bodies:
Ministerio de Economía y Competitividad (MINECO/SEIDI) **Type of entity:** Body, others
Type of participation: Principal investigator
Code according to the funding entity: DPI2013-49527-EXP
Start-End date: 01/09/2014 - 31/08/2017 **Duration:** 3 years
Participating entity/entities: Universidad Tecnológica de Bolívar
Total amount: 54.450 €
- 11 Name of the project:** INVESTIGACION EN NAVEGACION VECTORIAL Y CONTROL DE MANIPULACION COOPERATIVA DE ROBOTS PARALELOS ROVS
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Roque Saltaren; Rafael Aracil; Cecilia Garcia
Nº of researchers: 3
Funding entity or bodies:
Ministerio de Economía Industria y Competitividad
Start-End date: 01/01/2010 - 31/12/2013
Total amount: 214.170,01 €
- 12 Name of the project:** Investigación en navegación vectorial y control de manipulación cooperativa de robots paralelos ROVS
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): SALTAREN PAZMIÑO, ROQUE JACINTO
Funding entity or bodies:
Megacal **Type of entity:** State agency
City funding entity: 28027-Madrid, Spain
Ministerio de Ciencia e Innovación (MICINN) **Type of entity:** State agency
City funding entity: 28027-Madrid, Spain
Sociedad Anónima de Electrónica Submarina (SAES) **Type of entity:** State agency
City funding entity: 28027-Madrid, Spain
Universidad Tecnológica de Panamá (UTP) **Type of entity:** State agency
City funding entity: 28027-Madrid, Spain
Type of participation: Principal investigator
Code according to the funding entity: DPI2009-08778
Start-End date: 01/01/2010 - 31/12/2013 **Duration:** 4 years
Total amount: 214.170 €
- 13 Name of the project:** Docencia e investigación en robótica médica utilizando recursos software de código abierto
Geographical area: Non EU International
Degree of contribution: Coordinator of total project, network or consortium



Name principal investigator (PI, Co-PI....): SALTAREN PAZMIÑO, ROQUE JACINTO

Funding entity or bodies:

CYTED - Programa Iberoamericano de Ciencia y Tecnología para el Desarrollo

Type of entity: Body, others

Type of participation: Principal investigator

Start-End date: 01/01/2009 - 31/12/2012

Duration: 4 years

Participating entity/entities: Centro de Investigación Y de Estudios Avanzados del Instituto Politécnico Nacional (CINVESTAV); Universidad Central Marta Abreu de Las Villas (UCLV); Universidad Escuela Colombiana de Ingeniería Julio Garavito (ECI); Universidad Nacional de Tucuman; Universidad Politécnica de Madrid; Universidad Tecnológica de Panamá (UTP); Universidad del Cauca (UC)

Relevant results: El objetivo general es la coordinación de los diferentes grupos y la constitución de un equipo multidisciplinar que trabaje con unas herramientas comunes y que permitan el intercambio de trabajo entre ellos. Los objetivos específicos son el desarrollo de un simulador háptico para aplicaciones de cirugía (en concreto se particularizará a los campos de cirugía laparoscópica y de cirugía ortopédica maxilofacial) y otro simulador háptico que permita modelar dispositivos robóticos destinados a rehabilitación y prótesis de mano. Ambos trabajos estarán basados en una arquitectura software común y fundamentada en aplicaciones de software libre, permitiendo el intercambio entre los grupos de los desarrollos logrados. Por otra parte, la aplicación de estos desarrollos en los países solicitantes abre una vía de trabajo altamente demandada por la sociedad, al permitir mejorar la investigación y la docencia en las áreas de salud más innovadoras.

14 Name of the project: RF wireless for planetary exploration

Geographical area: Non EU International

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Barrientos Cruz, Antonio

Funding entity or bodies:

European Space Astronomy Centre

Type of entity: Body, others

Type of participation: Team member

Start-End date: 01/04/2009 - 31/03/2010

Duration: 11 months - 30 days

Participating entity/entities: Universidad Politécnica de Madrid

Total amount: 39.000 €

Relevant results: The main project's objective is to identify and characterize possible exploration scenarios suitable to exploit the capabilities of sensors network technologies maximizing the scientific return. The RF-WIPE project will design and test in a simulation environment, and both in laboratory and outdoors, a virtual payload able to retrieve planetary data used to map the targeted planetary area. This payload will measure the linear evolution of meteorological parameters in order to characterize weather processes with other atmospheric phenomena, such as dust storms or volcanic activity. In this sense, the possibility or correlate the behaviour of these agents could help to predict or prevent the effect of these atmospheric phenomena. The network topology will include linear hopping and multi-hopping in a mesh distribution. For the overall instrument special attention is paid to network robustness, power consumption and the deployment mechanism of mote sensors. In addition, the problem of the web deployment will also be dealt with. A mechanism will be designed and used within one of the reference scenarios: A robotic deployment system will be designed and implemented, in order to place each node of the collection of sensors in a dynamically-defined situation. This system is designed to overcome the terrain challenges, as well as optimize the power consumption.

15 Name of the project: ARROPAR: DESARROLLO DE ÓRTESIS Y PRÓTESIS PARA PERSONAS DISCAPACITADAS BASADAS EN PLATAFORMAS PARALELAS ACTIVAS

Entity where project took place: Universidad Politécnica de Madrid

Type of entity: University

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Roque Saltaren; José María Sabater



Nº of researchers: 2

Funding entity or bodies:

AECI-PCI (Secretaría de Estado de Cooperación Internacional, Gobierno de España)

Type of entity: State agency

Start-End date: 01/12/2008 - 31/12/2009

Total amount: 36.000 €

16 Name of the project: SMART: Sistemas Modulares Autoconfigurables Teleoperados

Entity where project took place: Universidad Politécnica de Madrid

Type of entity: University

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Rafael Aracil; Roque Saltaren; Manuel Ferre; Pedro Castedo

Nº of researchers: 5

Funding entity or bodies:

MINISTERIO DE EDUCACION Y CIENCIA

City funding entity: Spain

Start-End date: 01/10/2006 - 31/12/2009

Total amount: 190.000 €

17 Name of the project: Sistemas modulares autoconfigurables robotizados teleoperados

Geographical area: National

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): ARACIL SANTONJA, RAFAEL

Funding entity or bodies:

Ministerio de Educación y Ciencia (MEC)

Type of entity: State agency

Type of participation: Team member

Code according to the funding entity: DPI2006-06493

Start-End date: 01/10/2006 - 30/09/2009

Duration: 3 years

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

1 Name of the project: REALIZAR INFORMES TÉCNICOS SOBRE PROYECTOS I+D+I DE EMPRESAS QUE SOLICITEN SUBVENCIONES O DEDUCCIONES FISCALES (PROYECTO ABIERTO)

Degree of contribution: Coordinator of total project, network or consortium

Name principal investigator (PI, Co-PI....): SALTAREN PAZMIÑO, ROQUE JACINTO

Code according to the funding entity: P2005380380

Start date: 20/08/2020

Duration: 1 year - 6 months - 24 days

2 Name of the project: REALIZAR INFORMES TECNICOS SOBRE PROYECTOS I+D+I DE EMPRESAS QUE SOLICITEN SUBVENCIONES O DEDUCCIONES FISCALES (PROYECTO ABIERTO)

Degree of contribution: Coordinator of total project, network or consortium

Name principal investigator (PI, Co-PI....): SALTAREN PAZMIÑO, ROQUE JACINTO

Code according to the funding entity: P1905380050

Start date: 20/01/2019

Duration: 1 year - 4 months - 20 days

3 Name of the project: SISTEMA ROBOTIZADO DE FABRICACIÓN DE DOVELAS PARA TUNELES: RODOV

Degree of contribution: Coordinator of total project, network or consortium

Name principal investigator (PI, Co-PI....): SALTAREN PAZMIÑO, ROQUE JACINTO



Code according to the funding entity: P110070227

Start date: 13/05/2011

Duration: 8 years - 5 months - 14 days

- 4 Name of the project:** RoboCity2030-CM: Robots de servicios para la mejora de la calidad de vida de los ciudadanos en áreas metropolitanas.
- Identify key words:** Robotics; Automatization and instrumentation; Control; Perception
- Entity where project took place:** CAR UPM-CSIC: Grupo Investigación de Robots y Máquinas Inteligentes
- Degree of contribution:** Scientific coordinator
- Entity where project took place:** CAR UPM-CSIC: **Type of entity:** R&D Centre
Grupo Investigación de Robots y Máquinas Inteligentes
- Name principal investigator (PI, Co-PI....):** Rafael Aracil; Roque Saltaren; Cecilia Garcia; José María Sebastian
- Nº of researchers:** 4
- Participating entity/entities:** CSIC; Universidad Nacional de Educación a Distancia; Universidad Carlos III; Universidad Politécnica de Madrid; Universidad Rey Juan Carlos; Universidad de Alcalá de Henares
- Funding entity or bodies:**
Comunidad de Madrid **Type of entity:** Fondos FEDER
- City funding entity:** Madrid, Community of Madrid, Spain
- Start date:** 27/04/2006 **Duration:** 10 years
- Total amount:** 2.500.000 € **Sub-project amount:** 150.000 €

Results

Industrial and intellectual property

- 1 Title registered industrial property:** Sistema vestible para interacción con entornos remotos mediante información gestual y sensaciones táctiles
- Inventors/authors/obtainers:** Gabriel Poletti; Roque saltaren; Rafael Aracil; Gonzalo Ejarque
- Entity holder of rights:** Universidad Politécnica de Madrid
- Nº of application:** U201531083
- Country of inscription:** Spain, Community of Madrid
- Date of register:** 20/09/2013
- Conferral date:** 17/08/2016
- 2 Title registered industrial property:** Exoesqueleto robotizado con soporte de codo deslizante autoajustable para brazo humano
- Inventors/authors/obtainers:** Jesus Varela Sanz; Roque Saltaren Pazmiño
- Entity holder of rights:** Universidad Politécnica de Madrid
- Nº of application:** P201430287
- Country of inscription:** Spain, Community of Madrid
- Date of register:** 04/04/2014
- Conferral date:** 29/04/2016
- 3 Title registered industrial property:** Exoesqueleto robotizado con soporte de codo deslizante autoajustable para brazo humano (Patente de invención con EXAMEN PREVIO)
- Inventors/authors/obtainers:** Javier López; Jesús Varela; Roque saltaren
- Entity holder of rights:** Universidad Politécnica de Madrid
- Nº of application:** P201430287



Country of inscription: Spain, Community of Madrid
Date of register: 04/03/2014
Conferral date: 29/04/2016

- 4 Title registered industrial property:** Robot submarino humanoide transformable (Patente de invención con EXAMEN PREVIO)
Inventors/authors/obtainers: Gonzalo Ejarque; Roque Saltaren; Gabriel Poletti; Rafael Aracil
Entity holder of rights: Universidad Politécnica de Madrid
Nº of application: P201430253
Country of inscription: Spain, Community of Madrid
Date of register: 25/02/2014
Conferral date: 12/02/2016
- 5 Title registered industrial property:** Dispositivo y método para la medición de corrientes de fluidos mediante mecanismo paralelo esférico actuado por fuerzas de arrastre (Patente de invención con EXAMEN PREVIO)
Inventors/authors/obtainers: Gonzalo Ejarque; Roque Saltaren; Rafael Aracil; Gabriel Poletti
Entity holder of rights: Universidad Politécnica de Madrid
Nº of application: P20133092
Date of register: 20/06/2013
Conferral date: 17/07/2015
- 6 Title registered industrial property:** Mecanismo del tipo articulado de morfología serial-paralela de cuatro grados de libertad para apuntar y guiar dispositivos hacia dianas distales (Patente de invención con EXAMEN PREVIO)
Inventors/authors/obtainers: Roque saltaren; Rafael Aracil; Cecilia Garcia; Lisandro Puglisi
Entity holder of rights: Universidad Politécnica de Madrid
Nº of application: P201331865
Country of inscription: Spain, Community of Madrid
Date of register: 19/12/2013
Conferral date: 19/06/2015
- 7 Title registered industrial property:** Robot submarino modular (Patente de invención con EXAMEN PREVIO)
Inventors/authors/obtainers: Roque Saltaren; Gonzalo Ejarque; Rafael Aracil; Gabriel Poletti
Entity holder of rights: Universidad Politécnica de Madrid
Nº of application: P201431539
Country of inscription: Spain, Community of Madrid
Date of register: 20/10/2014
Conferral date: 21/04/2015
- 8 Title registered industrial property:** ROBOT DE ESTRUCTURA CINEMÁTICA HÍBRIDA PARA EL GUIADO DE LA INSERCIÓN DE AGUJAS, CATÉTERES Y ELEMENTOS QUIRÚRGICOS PARA PROCEDIMIENTOS DE CIRUGÍA MÍNIMAMENTE INVASIVA. (Patente de invención con EXAMEN PREVIO)
Inventors/authors/obtainers: Roque Saltaren; Lisandro Puglisi; Rafael Aracil; Gabriel Poletti; Germán Rey
Entity holder of rights: Universidad Politécnica de Madrid
Nº of application: P201132056
Country of inscription: Spain, Community of Madrid
Date of register: 20/12/2011
Conferral date: 27/03/2013



- 9 Title registered industrial property:** Mejoras en la patente principal P200201666: "Robot paralelo trepador y deslizante para trabajos en estructuras y superficies (Patente de invención con EXAMEN PREVIO)
Inventors/authors/obtainers: Roque saltaren; Rafael Aracil; Juan Lopez
Entity holder of rights: Universidad Politécnica de Madrid
N° of application: P200302920
Country of inscription: Spain, Community of Madrid
Date of register: 10/12/2003
Conferral date: 13/06/2007

Scientific and technological activities

Scientific production

- 1 H index:** 25
Date of application: 21/03/2022
Fuente de Índice H: GOOGLE SCHOLAR
- 2 H index:** 18
Date of application: 25/01/2023
Fuente de Índice H: SCOPUS

Publications, scientific and technical documents

- 1** 0000-0003-3348-0533; 0000-0002-4996-9416; 0000-0001-9666-1775; 0000-0002-1067-0564; 0000-0002-3320-3897; 0000-0001-8009-5350. Control Strategy of an Underactuated Underwater Drone-Shape Robot for Grasping Tasks. Sensors. 22, 2022. ISSN 14248220
DOI: 10.3390/s22228828
Type of production: Scientific paper **Format:** Journal
- 2** García Cena CE; Costa MC; Pazmiño R.S....[et al.]. Eye Movement Alterations in Post-COVID-19 Condition: A Proof-of-Concept Study. Sensors. 22(4), Multidisciplinary Digital Publishing Institute, 2022. ISSN 1424-8220
DOI: 10.3390/s22041481
Type of production: Scientific paper **Format:** Journal
Position of signature: 3 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 6
Impact source: ISI **Category:** Science Edition - INSTRUMENTS & INSTRUMENTATION
Impact index in year of publication: 3.576 (Source: JCR Edition 2020) **Journal in the top 25%:** Yes
Position of publication: 14 **No. of journals in the cat.:** 64
- 3** 0000-0002-4996-9416; 0000-0003-3348-0533; 0000-0002-3320-3897; 0000-0002-1067-0564; 0000-0001-8009-5350. Method to Develop Legs for Underwater Robots: From Multibody Dynamics with Experimental Data to Mechatronic Implementation. Sensors. 22, 2022. ISSN 14248220
DOI: 10.3390/s22218462
Type of production: Scientific paper **Format:** Journal



- 4** Rodriguez-Barroso A.; Khan M.; Santamaria V.; Sammarchi E.; Saltaren R.; Agrawal S.. Simulating Underwater Human Motions on the Ground With a Cable-Driven Robotic Platform. IEEE Transactions on Robotics. 2022. ISSN 15523098
DOI: 10.1109/TRO.2022.3197338
Type of production: Scientific paper **Format:** Journal
- 5** Carpio, Marco; Saltaren, Roque; Viola, Julio...[et al.]. A Simulation Study of a Planar Cable-Driven Parallel Robot to Transport Supplies for Patients with Contagious Diseases in Health Care Centers. Robotics. 10(4), MDPI, 2021. ISSN 2218-6581
DOI: 10.3390/robotics10040111
Type of production: Scientific paper **Format:** Journal
Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 7 **Corresponding author:** Yes
- 6** Carpio M.; Saltaren R.; Viola J.; García C.; Guerra J.; Cely J.; Calderón C.. A simulation study of a planar cable-driven parallel robot to transport supplies for patients with contagious diseases in health care centers. Robotics. 10, 2021.
DOI: 10.3390/robotics10040111
Type of production: Scientific paper **Format:** Journal
Source of citations: SCOPUS **Citations:** 1
- 7** Yakrang, Oz; Saltaren Pazmino, Roque J; Cely, Juan S...[et al.]. An Intelligent Algorithm for Decision Making System and Control of the GEMMA Guide Paradigm Using the Fuzzy Petri Nets Approach. Electronics. 10(4), Faculty of Electrical Engineering Banja Luka, 2021. ISSN 2079-9292
DOI: 10.3390/electronics10040489
Type of production: Scientific paper **Format:** Journal
Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 8
Impact source: ISI **Category:** Science Edition - PHYSICS, APPLIED
Impact index in year of publication: 2.397 (Source: JCR Edition 2020)
Position of publication: 88 **No. of journals in the cat.:** 160
Citations: 1
- 8** Rodriguez-Barroso, Alejandro; Saltaren, Roque. Passive reconfigurable end effector for underwater simulation on humanoids. Mechanism And Machine Theory. 163, PERGAMON-ELSEVIER SCIENCE LTD, 2021. ISSN 0094-114X
DOI: 10.1016/j.mechmachtheory.2021.104387
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 2
Impact source: ISI **Category:** Science Edition - ENGINEERING, MECHANICAL
Impact index in year of publication: 3.866 (Source: JCR Edition 2020) **Journal in the top 25%:** Yes
Position of publication: 29 **No. of journals in the cat.:** 135

- 9** Carpio, Marco; Saltaren, Roque; Viola, Julio...[et al.]. Proposal of a Decoupled Structure of Fuzzy-PID Controllers Applied to the Position Control in a Planar CDPR. Electronics. 10(6), Faculty of Electrical Engineering Banja Luka, 2021. ISSN 2079-9292
DOI: 10.3390/electronics10060745
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 5
Impact source: ISI
Impact index in year of publication: 2.397 (Source: JCR Edition 2020)
Position of publication: 88
Source of citations: WOS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Science Edition - PHYSICS, APPLIED
No. of journals in the cat.: 160
Citations: 2
- 10** Cardona M; Serrano F; Martín JA...[et al.]. The exoskeleton for gait rehabilitation ALICE: Dynamic analysis and control system evaluation using Hamilton quaternions. Revista Iberoamericana De Automatica E Informatica Industrial. 18(1), pp. 48 - 57. Comite Espanol Automatica Cea, 2021. ISSN 1697-7912
DOI: 10.4995/RIAI.2020.12558
Type of production: Scientific paper
Position of signature: 5
Total no. authors: 6
Impact source: ISI
Impact index in year of publication: 1.202 (Source: JCR Edition 2020)
Position of publication: 27
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - ROBOTICS
No. of journals in the cat.: 28
Citations: 1
- 11** Cardona M; García Cena CE; Serrano F...[et al.]. ALICE: Conceptual development of a lower limb exoskeleton robot driven by an on-board musculoskeletal simulator. Sensors. 20(3), Multidisciplinary Digital Publishing Institute, 2020. ISSN 1424-8220
DOI: 10.3390/s20030789
PMID: 32023988
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 4
Impact source: SCOPUS
Impact index in year of publication: 0.636
Position of publication: 188
Impact source: ISI
Impact index in year of publication: 3.576
Position of publication: 14
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Electrical and Electronic Engineering
No. of journals in the cat.: 2.032
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: Yes
No. of journals in the cat.: 64
Citations: 12
- 12** Rodriguez-Barroso, Alejandro; Saltaren, Roque. Tension planner for cable-driven suspended robots with unbounded upper cable tension and two degrees of redundancy. Mechanism And Machine Theory. 144(UNSP 103675), PERGAMON-ELSEVIER SCIENCE LTD, 2020. ISSN 0094-114X
DOI: 10.1016/j.mechmachtheory.2019.103675



Type of production: Scientific paper
Position of signature: 2

Total no. authors: 2
Impact source: SCOPUS
Impact index in year of publication: 1.202
Position of publication: 86

Impact source: ISI
Impact index in year of publication: 3.866
Position of publication: 29

Source of citations: SCOPUS

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Computer Science Applications
Journal in the top 25%: Yes
No. of journals in the cat.: 2.195

Category: Science Edition - ENGINEERING, MECHANICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 135

Citations: 1

- 13** Portilla, Gerardo; Saltaren, Roque; RODRIGUEZ BARROSO, ALEJANDRO...[et al.]. A Sensor Based on a Spherical Parallel Mechanism for the Measurement of Fluid Velocity: Experimental Development. Ieee Access. 7, pp. 16145 - 16154. IEEE, 2019. ISSN 2169-3536

DOI: 10.1109/ACCESS.2019.2892819

Type of production: Scientific paper
Position of signature: 2

Total no. authors: 5
Impact source: SCOPUS
Impact index in year of publication: 0.775
Position of publication: 73

Impact source: ISI
Impact index in year of publication: 3.745
Position of publication: 61

Source of citations: WOS

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 676

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Journal in the top 25%: Yes
No. of journals in the cat.: 266

Citations: 3

- 14** Portilla, Gerardo; Saltaren, Roque; Montero de Espinosa, Francisco...[et al.]. Dynamic Walking of a Legged Robot in Underwater Environments. Sensors. 19(16), Multidisciplinary Digital Publishing Institute, 2019. ISSN 1424-8220

DOI: 10.3390/s19163588

PMID: 31426547

Type of production: Scientific paper
Position of signature: 2

Total no. authors: 6
Impact source: SCOPUS
Impact index in year of publication: 0.653
Position of publication: 38

Impact source: ISI
Impact index in year of publication: 3.275
Position of publication: 15

Source of citations: WOS

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Instrumentation
Journal in the top 25%: Yes
No. of journals in the cat.: 374

Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: Yes
No. of journals in the cat.: 64

Citations: 3



- 15** Cely, Juan S.; Saltaren, Roque; Portilla, Gerardo...[et al.]. Experimental and Computational Methodology for the Determination of Hydrodynamic Coefficients Based on Free Decay Test: Application to Conception and Control of Underwater Robots. *Sensors*. 19(17), Multidisciplinary Digital Publishing Institute, 2019. ISSN 1424-8220
DOI: 10.3390/s19173631
PMID: 31438496
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 5
Impact source: SCOPUS
Impact index in year of publication: 0.653
Position of publication: 38
Impact source: ISI
Impact index in year of publication: 3.275
Position of publication: 15
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Instrumentation
Journal in the top 25%: Yes
No. of journals in the cat.: 374
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: Yes
No. of journals in the cat.: 64
Citations: 12
- 16** Rodriguez-Barroso A; Saltarén R; Portilla G...[et al.]. Potential Energy Distribution of Redundant Cable-Driven Robot Applied to Compliant Grippers: Method and Computational Analysis. *Sensors*. 19(15), Multidisciplinary Digital Publishing Institute, 2019. ISSN 1424-8220
DOI: 10.3390/s19153403
PMID: 31382534
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 5
Impact source: SCOPUS
Impact index in year of publication: 0.653
Position of publication: 38
Impact source: ISI
Impact index in year of publication: 3.275
Position of publication: 15
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Instrumentation
Journal in the top 25%: Yes
No. of journals in the cat.: 374
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: Yes
No. of journals in the cat.: 64
Citations: 4
- 17** Aleman M; Saltarén R; Rodriguez A...[et al.]. Rotational workspace expansion of a planar CDPR with a circular end-effector mechanism allowing passive reconfiguration. *Robotics*. 8(3), MDPI, 2019. ISSN 2218-6581
DOI: 10.3390/robotics8030057
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 5
Impact source: SCOPUS
Impact index in year of publication: 0.31
Position of publication: 356
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Mechanical Engineering
No. of journals in the cat.: 797
Citations: 3

- 18** Saltaren, Roque; Portilla, Gerardo; Barroso, Alejandro R....[et al.]. A Sensor Based on a Spherical Parallel Mechanism for the Measurement of Fluid Velocity: Physical Modelling and Computational Analysis. Sensors. 18(9), Multidisciplinary Digital Publishing Institute, 2018. ISSN 1424-8220
DOI: 10.3390/s18092867
PMID: 30200268
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 4
Impact source: SCOPUS
Impact index in year of publication: 0.592
Position of publication: 183
Impact source: ISI
Impact index in year of publication: 3.031
Position of publication: 15
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Electrical and Electronic Engineering
No. of journals in the cat.: 1.920
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: Yes
No. of journals in the cat.: 61
Citations: 3
- 19** Saltarén R.; Portilla G.; Barroso A.; Cely J.. A sensor based on a spherical parallel mechanism for the measurement of fluid velocity: Physical modelling and computational analysis. Sensors (Switzerland). 18, 2018. ISSN 14248220
DOI: 10.3390/s18092867
Type of production: Scientific paper
Format: Journal
- 20** Rodriguez-Barroso, Alejandro; Saltaren, Roque; Portilla, Gerardo A....[et al.]. Cable-Driven Parallel Robot with Reconfigurable End Effector Controlled with a Compliant Actuator. Sensors. 18(9), Multidisciplinary Digital Publishing Institute, 2018. ISSN 1424-8220
DOI: 10.3390/s18092765
PMID: 30135404
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 5
Impact source: SCOPUS
Impact index in year of publication: 0.592
Position of publication: 183
Impact source: ISI
Impact index in year of publication: 3.031
Position of publication: 15
Source of citations: WOS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Electrical and Electronic Engineering
No. of journals in the cat.: 1.920
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: Yes
No. of journals in the cat.: 61
Citations: 10
- 21** Rodriguez-Barroso A.; Saltaren R.; Portilla G.; Cely J.; Carpio M.. Cable-driven parallel robot with reconfigurable end effector controlled with a compliant actuator. Sensors (Switzerland). 18, 2018. ISSN 14248220
DOI: 10.3390/s18092765
Type of production: Scientific paper
Format: Journal

- 22** Destarac M; García C; Garcia J...[et al.]. ORTE: Robot for upper limb rehabilitation. biomechanical analysis of human movements. Ieee Latin America Transactions. 16(6), pp. 1638 - 1643. IEEE, 2018. ISSN 1548-0992
DOI: 10.1109/TLA.2018.8444160
Type of production: Scientific paper
Position of signature: 5
Total no. authors: 5
Impact source: SCOPUS
Impact index in year of publication: 0.337
Position of publication: 366
Impact source: ISI
Impact index in year of publication: 0.804
Position of publication: 227
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Electrical and Electronic Engineering
No. of journals in the cat.: 1.920
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
No. of journals in the cat.: 266
Citations: 5
- 23** Destarac M.; Garcia C.; Garcia J.; Espinoza R.; Saltaren R.. ORTE: Robot for upper limb rehabilitation. biomechanical analysis of human movements. IEEE Latin America Transactions. 16, pp. 1638 - 1643. 2018. ISSN 15480992
DOI: 10.1109/TLA.2018.8444160
Type of production: Scientific paper
Format: Journal
- 24** Saltaren, Roque; RODRIGUEZ BARROSO, ALEJANDRO; Yakrang, Oz. Robotics for Seabed Teleoperation: Part-1-Conception and Practical Implementation of a Hybrid Seabed Robot. Ieee Access. 6, pp. 60559 - 60569. IEEE, 2018. ISSN 2169-3536
DOI: 10.1109/ACCESS.2018.2876040
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 3
Impact source: SCOPUS
Impact index in year of publication: 0.609
Position of publication: 82
Impact source: ISI
Impact index in year of publication: 4.098
Position of publication: 52
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 787
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Journal in the top 25%: Yes
No. of journals in the cat.: 266
Citations: 7
- 25** Roque Saltaren; Alejandro Rodriguez; Oz Yakrang. Robotics for Seabed Teleoperation: Part-1—Conception and Practical Implementation of a Hybrid Seabed Robot. IEEE ACCESS. 6, pp. 60559 - 60569. IEEE Journals & Magazines, 2018.
Type of production: Scientific paper
Format: Journal
Corresponding author: Yes
- 26** Puglisi, Lisandro J.; Saltaren Pazmino, Roque J.; Garcia Cena, Cecilia E...[et al.]. Implementation of a Generic Constraint Function to Solve the Direct Kinematics of Parallel Manipulators Using Newton-Raphson Approach. Control Engineering And Applied Informatics. 19(2), pp. 71 - 79. Romanian Soc Control Tech Informatics, 2017. ISSN 1454-8658



Type of production: Scientific paper
Position of signature: 2

Total no. authors: 5

Impact source: SCOPUS
Impact index in year of publication: 0.289
Position of publication: 403

Impact source: ISI

Impact index in year of publication: 0.698
Position of publication: 53

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Electrical and Electronic Engineering

No. of journals in the cat.: 2.366

Category: Science Edition - AUTOMATION & CONTROL SYSTEMS

No. of journals in the cat.: 61

Citations: 4

- 27** Puglisi L.; Saltaren Pazmiño R.; Garcia Cena C.; Cárdenas P.; Moreno H.. Implementation of a generic constraint function to solve the direct kinematics of parallel manipulators using Newton-Raphson approach. Control Engineering and Applied Informatics. 19, pp. 71 - 79. 2017. ISSN 14548658

Type of production: Scientific paper

Format: Journal

- 28** Varela, Jesus; Saltaren, Roque J.; Puglisi, Lisandro...[et al.]. Shoulder assessment methodology, clinical studies and SOFI rehabilitation exoskeleton. Robotics And Autonomous Systems. 94, pp. 264 - 281. North-Holland, 2017. ISSN 0921-8890

DOI: 10.1016/j.robot.2017.04.008

Type of production: Scientific paper
Position of signature: 2

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 6

Impact source: SCOPUS
Impact index in year of publication: 0.711
Position of publication: 98

Category: Software

Journal in the top 25%: Yes

No. of journals in the cat.: 1.826

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Impact index in year of publication: 2.638
Position of publication: 36

No. of journals in the cat.: 132

Source of citations: WOS

Citations: 1

- 29** Varela J.; Saltarén R.; Puglisi L.; López J.; Alvarez M.; Rodríguez J.. Shoulder assessment methodology, clinical studies and SOFI rehabilitation exoskeleton. Robotics and Autonomous Systems. 94, pp. 264 - 281. 2017. ISSN 09218890

DOI: 10.1016/j.robot.2017.04.008

Type of production: Scientific paper

Format: Journal

- 30** Andre Destarac, Marie; Garcia Cena, Cecilia E.; Saltaren Pazmino, Roque J...[et al.]. Modeling and Simulation of Upper Brachial Plexus Injury. Ieee Systems Journal. 10(3), pp. 912 - 921. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 2016. ISSN 1932-8184

DOI: 10.1109/JSYST.2014.2387426

Type of production: Scientific paper
Position of signature: 3

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 6



Impact source: SCOPUS
Impact index in year of publication: 0.609
Position of publication: 171

Impact source: ISI

Impact index in year of publication: 3.882
Position of publication: 38

Source of citations: SCOPUS

Category: Electrical and Electronic Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 2.430

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Journal in the top 25%: Yes
No. of journals in the cat.: 262

Citations: 8

- 31** Destarac M.; García Cena C.; Saltarén Pazmiño R.; Reyes Urbina M.; López López J.; Gómez R.. Modeling and Simulation of Upper Brachial Plexus Injury. IEEE Systems Journal. 10, pp. 912 - 921. 2016. ISSN 19328184

DOI: 10.1109/JSYST.2014.2387426

Type of production: Scientific paper

Source of citations: SCOPUS

Format: Journal

Citations: 4

- 32** Puglisi, L. J.; Saltaren, R. J.; Garcia Cena, C. E.. On the Velocity and Acceleration Estimation from Discrete Time-Position Sensors. Control Engineering And Applied Informatics. 17(3), pp. 30 - 40. Romanian Soc Control Tech Informatics, 2015. ISSN 1454-8658

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 3

Impact source: SCOPUS
Impact index in year of publication: 0.234
Position of publication: 528

Impact source: ISI

Impact index in year of publication: 0.449
Position of publication: 51

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Electrical and Electronic Engineering

No. of journals in the cat.: 2.260

Category: Science Edition - AUTOMATION & CONTROL SYSTEMS

No. of journals in the cat.: 59

Citations: 16

- 33** Puglisi L.; Saltaren R.; Garcia Cena C.. On the velocity and acceleration estimation from discrete time-position sensors. Control Engineering and Applied Informatics. 17, pp. 30 - 40. 2015. ISSN 14548658

Type of production: Scientific paper

Source of citations: SCOPUS

Format: Journal

Citations: 5

- 34** Puglisi, Lisandro J.; Saltaren, Roque J.; Garcia, Cecilia...[et al.]. Robustness analysis of a PI controller for a hydraulic actuator. Control Engineering Practice. 43, pp. 94 - 108. PERGAMON-ELSEVIER SCIENCE LTD, 2015. ISSN 0967-0661

DOI: 10.1016/j.conengprac.2015.06.010

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 4

Impact source: SCOPUS
Impact index in year of publication: 1.116
Position of publication: 85

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Electrical and Electronic Engineering

Journal in the top 25%: Yes

No. of journals in the cat.: 2.260

**Impact source:** ISI**Impact index in year of publication:** 1.83**Position of publication:** 84**Source of citations:** SCOPUS**Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC**No. of journals in the cat.:** 256**Citations:** 16

- 35** Puglisi L.; Saltaren R.; Garcia C.; Banfield I.. Robustness analysis of a PI controller for a hydraulic actuator. Control Engineering Practice. 43, pp. 94 - 108. 2015. ISSN 09670661

DOI: 10.1016/j.conengprac.2015.06.010**Type of production:** Scientific paper**Source of citations:** SCOPUS**Format:** Journal**Citations:** 3

- 36** Tafur, Julio C.; Garcia, Cecilia; Aracil, Rafael...[et al.]. State convergence theory applied to a nonlinear and delayed telerobotic system. Journal Of Engineering Mathematics. 91(1), pp. 193 - 210. Springer, 2015. ISSN 0022-0833

DOI: 10.1007/s10665-014-9739-9**Type of production:** Scientific paper**Position of signature:** 4**Total no. authors:** 4**Impact source:** SCOPUS**Impact index in year of publication:** 0.363**Position of publication:** 130**Impact source:** ISI**Impact index in year of publication:** 0.665**Position of publication:** 58**Source of citations:** SCOPUS**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Engineering (miscellaneous)**No. of journals in the cat.:** 680**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY**No. of journals in the cat.:** 85**Citations:** 2

- 37** Tafur J.; García C.; Aracil R.; Saltaren R.. State convergence theory applied to a nonlinear and delayed telerobotic system. Journal of Engineering Mathematics. 91, pp. 193 - 210. 2015. ISSN 00220833

DOI: 10.1007/s10665-014-9739-9**Type of production:** Scientific paper**Source of citations:** SCOPUS**Format:** Journal**Citations:** 2

- 38** Tafur, Julio C.; Garcia, Cecilia E.; Aracil, Rafael...[et al.]. Control of a Delayed Teleoperation System Applying State Convergence Approach. Revista Iberoamericana De Automatica E Informatica Industrial. 11(4), pp. 406 - 416. Comité Español Automatica Cea, 2014. ISSN 1697-7912

DOI: 10.1016/j.riai.2014.08.002**Type of production:** Scientific paper**Position of signature:** 4**Total no. authors:** 4**Impact source:** SCOPUS**Impact index in year of publication:** 0.246**Position of publication:** 206**Impact source:** ISI**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Control and Systems Engineering**No. of journals in the cat.:** 847**Category:** Science Edition - AUTOMATION & CONTROL SYSTEMS

**Impact index in year of publication:** 0.318**Position of publication:** 54**Source of citations:** SCOPUS**No. of journals in the cat.:** 58**Citations:** 1

- 39** Tafur J.; García C.; Aracil R.; Saltarén R.. Control of a delayed teleoperation system applying state convergence approach. RIAI - Revista Iberoamericana de Automatica e Informatica Industrial. 11, pp. 406 - 416. 2014. ISSN 16977912

DOI: 10.1016/j.riai.2014.08.002**Type of production:** Scientific paper**Source of citations:** SCOPUS**Format:** Journal**Citations:** 1

- 40** Héctor A. Moreno; Roque Jacinto Saltaren Pazmiño; Lisandro Puglisi...[et al.]. Robótica Submarina: Conceptos, Elementos, Modelado y Control. Revista Iberoamericana De Automatica E Informatica Industrial. 11(1), pp. 3 - 19. Comité Español Automatica Cea, 2014. ISSN 1697-7912

Type of production: Scientific paper**Position of signature:** 2**Total no. authors:** 6**Impact source:** SCOPUS**Impact index in year of publication:** 0.246**Position of publication:** 206**Impact source:** ISI**Impact index in year of publication:** 0.318**Position of publication:** 54**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Control and Systems Engineering**No. of journals in the cat.:** 847**Category:** Science Edition - AUTOMATION & CONTROL SYSTEMS**No. of journals in the cat.:** 58

- 41** Moreno, Hector A.; Saltaren, Roque; Puglisi, Lisandro...[et al.]. Underwater Robotics: Concepts, Elements, Modeling and Control. Revista Iberoamericana De Automatica E Informatica Industrial. 11(1), pp. 3 - 19. Comité Español Automatica Cea, 2014. ISSN 1697-7912

DOI: 10.1016/j.riai.2013.11.001**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 6**Impact source:** SCOPUS**Impact index in year of publication:** 0.246**Position of publication:** 206**Impact source:** ISI**Impact index in year of publication:** 0.318**Position of publication:** 54**Source of citations:** SCOPUS**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Control and Systems Engineering**No. of journals in the cat.:** 847**Category:** Science Edition - AUTOMATION & CONTROL SYSTEMS**No. of journals in the cat.:** 58**Citations:** 9

- 42** Moreno H.; Saltarén R.; Puglisi L.; Carrera I.; Cárdenas P.; Álvarez C.. Underwater Robotics: Concepts, elements, modeling and control. RIAI - Revista Iberoamericana de Automatica e Informatica Industrial. 11, pp. 3 - 19. 2014. ISSN 16977912

DOI: 10.1016/j.riai.2013.11.001**Type of production:** Scientific paper**Format:** Journal

**Source of citations:** SCOPUS**Citations:** 4

- 43** García Cena, Cecilia; Cardenas, Pedro F.; Saltaren-Pazmino, Roque...[et al.]. A cooperative multi-agent robotics system: Design and modelling. Expert Systems With Applications. 40(12), pp. 4737 - 4748. Pergamon, 2013. ISSN 0957-4174
DOI: 10.1016/j.eswa.2013.01.048
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 5
Impact source: SCOPUS
Impact index in year of publication: 1.305
Position of publication: 68
Impact source: ISI
Impact index in year of publication: 1.965
Position of publication: 30
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Computer Science Applications
Journal in the top 25%: Yes
No. of journals in the cat.: 1.472
Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Journal in the top 25%: Yes
No. of journals in the cat.: 121
Citations: 21
- 44** Alejandra Urdaneta, Maria; Garcia, Cecilia; Saltaren, Roque...[et al.]. Design and application oilfield pipelines inspection prototype robot (progressive cavity pumps and electric submersible pumps). Revista Tecnica De La Facultad De Ingenieria Universidad Del Zulia. 36(1), pp. 3 - 12. Universidad del Zulia, 2013. ISSN 0254-0770
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 5
Impact source: ISI
Impact index in year of publication: 0.047
Position of publication: 87
Impact source: SCOPUS
Impact index in year of publication: 0.118
Position of publication: 395
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - ENGINEERING, MULTIDISCIPLINARY
No. of journals in the cat.: 87
Category: Engineering (miscellaneous)
No. of journals in the cat.: 532
- 45** Urdaneta M.; García C.; Saltaren R.; Contreras G.; Ejarque G.. Design and application oilfield pipelines inspection prototype robot (progressive cavity pumps and electric submersible pumps). Revista Tecnica de la Facultad de Ingenieria Universidad del Zulia. 36, pp. 3 - 12. 2013. ISSN 02540770
Type of production: Scientific paper
Format: Journal
- 46** Pugisi, Lisandro J.; Saltaren, Roque J.; Portoles, German Rey...[et al.]. Design and kinematic analysis of 3PSS-1S wrist for needle insertion guidance. Robotics And Autonomous Systems. 61(5), pp. 417 - 427. North-Holland, 2013. ISSN 0921-8890
DOI: 10.1016/j.robot.2013.02.001
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 6
Impact source: SCOPUS
Impact index in year of publication: 0.769
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Software
Journal in the top 25%: Yes



Position of publication: 131

Impact source: ISI

Impact index in year of publication: 1.105

Position of publication: 67

Source of citations: SCOPUS

No. of journals in the cat.: 1.695

Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

No. of journals in the cat.: 121

Citations: 11

- 47** Puglisi L.; Saltaren R.; Rey Portolés G.; Moreno H.; Cárdenas P.; Garcia C.. Design and kinematic analysis of 3PSS-1S wrist for needle insertion guidance. Robotics and Autonomous Systems. 61, pp. 417 - 427. 2013. ISSN 09218890

DOI: 10.1016/j.robot.2013.02.001

Type of production: Scientific paper

Source of citations: SCOPUS

Format: Journal

Citations: 6

- 48** Garcia, Cecilia; Cardenas, Pedro F.; Puglisi, Lisandro J....[et al.]. Design and modeling of the multi-agent robotic system: SMART. Robotics And Autonomous Systems. 60(2), pp. 143 - 153. North-Holland, 2012. ISSN 0921-8890

DOI: 10.1016/j.robot.2011.09.007

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 4

Impact source: SCOPUS

Impact index in year of publication: 0.776

Position of publication: 130

Impact source: ISI

Impact index in year of publication: 1.156

Position of publication: 9

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Software

Journal in the top 25%: Yes

No. of journals in the cat.: 1.897

Category: Science Edition - ROBOTICS

No. of journals in the cat.: 21

Citations: 12

- 49** García C.; Cárdenas P.; Puglisi L.; Saltaren R.. Design and modeling of the multi-agent robotic system: SMART. Robotics and Autonomous Systems. 60, pp. 143 - 153. 2012. ISSN 09218890

DOI: 10.1016/j.robot.2011.09.007

Type of production: Scientific paper

Source of citations: SCOPUS

Format: Journal

Citations: 9

- 50** Urdaneta, Maria; Garcia, Cecilia; Poletti, Gabriel...[et al.]. Development of a Novel Autonomous Robot for Navigation and Inspect in Oil Wells. Control Engineering And Applied Informatics. 14(3), pp. 9 - 14. Romanian Soc Control Tech Informatics, 2012. ISSN 1454-8658

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 6

Impact source: SCOPUS

Impact index in year of publication: 0.159

Position of publication: 211

Impact source: ISI

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Computer Science (miscellaneous)

No. of journals in the cat.: 502

Category: Science Edition - AUTOMATION & CONTROL SYSTEMS

**Impact index in year of publication:** 0.202**Position of publication:** 56**Source of citations:** SCOPUS**No. of journals in the cat.:** 59**Citations:** 3

- 51** Urdaneta M.; García C.; Poletti G.; Ejarque G.; Saltaren R.; Aracil R.. Development of a novel autonomous robot for navigation and: Inspect in oil wells. Control Engineering and Applied Informatics. 14, pp. 9 - 14. 2012. ISSN 14548658

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

- 52** Puglisi, Lisandro J.; Saltaren, Roque J.; Moreno, Hector A....[et al.]. Dimensional synthesis of a spherical parallel manipulator based on the evaluation of global performance indexes. Robotics And Autonomous Systems. 60(8), pp. 1037 - 1045. North-Holland, 2012. ISSN 0921-8890

DOI: 10.1016/j.robot.2012.05.013**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 6**Impact source:** SCOPUS**Category:** Software**Impact index in year of publication:** 0.776**Journal in the top 25%:** Yes**Position of publication:** 130**No. of journals in the cat.:** 1.897**Impact source:** ISI**Category:** Science Edition - ROBOTICS**Impact index in year of publication:** 1.156**Position of publication:** 9**No. of journals in the cat.:** 21**Source of citations:** SCOPUS**Citations:** 21

- 53** Puglisi L.; Saltaren R.; Moreno H.; Cárdenas P.; Garcia C.; Aracil R.. Dimensional synthesis of a spherical parallel manipulator based on the evaluation of global performance indexes. Robotics and Autonomous Systems. 60, pp. 1037 - 1045. 2012. ISSN 09218890

DOI: 10.1016/j.robot.2012.05.013**Type of production:** Scientific paper**Format:** Journal**Source of citations:** SCOPUS**Citations:** 10

- 54** María Alejandra Urdaneta Lima; Cecilia García; Roque Jacinto Saltaren Pazmiño...[et al.]. Estructura Robótica Pre-Tensada para Robot en Tuberías Petroleras. Revista Iberoamericana De Automatica E Informatica Industrial. 9(2), pp. 135 - 143. Comite Espanol Automatica Cea, 2012. ISSN 1697-7912

Type of production: Scientific paper**Format:** Journal**Position of signature:** 3**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 5**Impact source:** SCOPUS**Category:** Computer Science (miscellaneous)**Impact index in year of publication:** 0.192**Position of publication:** 172**No. of journals in the cat.:** 502**Impact source:** ISI**Category:** Science Edition - AUTOMATION & CONTROL SYSTEMS**Impact index in year of publication:** 0.375**Position of publication:** 52**No. of journals in the cat.:** 59



- 55** Serracin, J. R.; Puglisi, L. J.; Saltaren, R....[et al.]. Kinematic analysis of a novel 2-d.o.f. orientation device. *Robotics And Autonomous Systems*. 60(6), pp. 852 - 861. North-Holland, 2012. ISSN 0921-8890
DOI: 10.1016/j.robot.2012.01.010
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 6
Impact source: SCOPUS
Impact index in year of publication: 0.776
Position of publication: 130
Impact source: ISI
Impact index in year of publication: 1.156
Position of publication: 9
Source of citations: SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Software
Journal in the top 25%: Yes
No. of journals in the cat.: 1.897
Category: Science Edition - ROBOTICS
No. of journals in the cat.: 21
Citations: 14
- 56** Serracin J.; Puglisi L.; Saltaren R.; Ejarque G.; Sabater-Navarro J.; Aracil R.. Kinematic analysis of a novel 2-d.o.f. orientation device. *Robotics and Autonomous Systems*. 60, pp. 852 - 861. 2012. ISSN 09218890
DOI: 10.1016/j.robot.2012.01.010
Type of production: Scientific paper
Source of citations: SCOPUS
- Format:** Journal
Citations: 6
- 57** Moreno H.; Saltaren R.; Carrera I.; Puglisi L.; Aracil R.. Performance Indices for Robotic Manipulators: A review of the state of the art. *RIAI - Revista Iberoamericana de Automatica e Informatica Industrial*. 9, pp. 111 - 122. 2012. ISSN 16977912
DOI: 10.1016/j.riai.2012.02.005
Type of production: Scientific paper
Source of citations: SCOPUS
- Format:** Journal
Citations: 9
- 58** Moreno, Hector A.; Saltaren, Roque; Carrera, Isela...[et al.]. Performance Indices for Robotic Manipulators: a review of the State of the Art. *Revista Iberoamericana De Automatica E Informatica Industrial*. 9(2), pp. 111 - 122. *Comite Espanol Automatica Cea*, 2012. ISSN 1697-7912
DOI: 10.1016/j.riai.2012.02.005
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 5
Impact source: SCOPUS
Impact index in year of publication: 0.192
Position of publication: 172
Impact source: ISI
Impact index in year of publication: 0.375
Position of publication: 52
Source of citations: SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Computer Science (miscellaneous)
No. of journals in the cat.: 502
Category: Science Edition - AUTOMATION & CONTROL SYSTEMS
No. of journals in the cat.: 59
Citations: 17
- 59** Alejandra Urdaneta, Maria; Garcia, Cecilia; Saltaren, Roque...[et al.]. Prestressed Structure for Robotics Robot Oil Pipeline. *Revista Iberoamericana De Automatica E Informatica Industrial*. 9(2), pp. 135 - 143. *Comite Espanol Automatica Cea*, 2012. ISSN 1697-7912



DOI: 10.1016/j.riai.2012.02.001

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 5

Impact source: SCOPUS

Impact index in year of publication: 0.192

Position of publication: 172

Impact source: ISI

Impact index in year of publication: 0.375

Position of publication: 52

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Computer Science (miscellaneous)

No. of journals in the cat.: 502

Category: Science Edition - AUTOMATION & CONTROL SYSTEMS

No. of journals in the cat.: 59

Citations: 2

- 60** Urdaneta M.; García C.; Saltaren R.; Contreras G.; Ugarte R.. Prestressed structure for robotics robot oil pipeline. RIAI - Revista Iberoamericana de Automatica e Informatica Industrial. 9, pp. 135 - 143. 2012. ISSN 16977912

DOI: 10.1016/j.riai.2012.02.001

Type of production: Scientific paper

Source of citations: SCOPUS

Format: Journal

Citations: 2

- 61** Urdaneta, Maria A.; Garcia, Cecilia; Saltaren, Roque...[et al.]. Structure robotic for vertical oil pipeline design methodology. Revista Tecnica De La Facultad De Ingenieria Universidad Del Zulia. 35(2), pp. 121 - 131. Universidad del Zulia, 2012. ISSN 0254-0770

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 0.033

Position of publication: 90

Impact source: SCOPUS

Impact index in year of publication: 0.148

Position of publication: 328

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Science Edition - ENGINEERING, MULTIDISCIPLINARY

No. of journals in the cat.: 90

Category: Engineering (miscellaneous)

No. of journals in the cat.: 530

- 62** Urdaneta M.; García C.; Saltaren R.; Contreras G.; Ejarque G.. Structure robotic for vertical oil pipeline design methodology. Revista Tecnica de la Facultad de Ingenieria Universidad del Zulia. 35, pp. 121 - 131. 2012. ISSN 02540770

Type of production: Scientific paper

Format: Journal

- 63** Saltaren Pazmino, Roque; Garcia Cena, Cecilia E.; Alvarez Arocha, Cesar...[et al.]. Experiences and results from designing and developing a 6 DoF underwater parallel robot. Robotics And Autonomous Systems. 59(2), pp. 101 - 112. North-Holland, 2011. ISSN 0921-8890

DOI: 10.1016/j.robot.2010.10.005

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 4

Impact source: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Software



Impact index in year of publication: 0.809
Position of publication: 130

Impact source: ISI

Impact index in year of publication: 1.056
Position of publication: 26

Source of citations: SCOPUS

Journal in the top 25%: Yes
No. of journals in the cat.: 1.953

Category: Science Edition - AUTOMATION & CONTROL SYSTEMS

No. of journals in the cat.: 58

Citations: 24

- 64** Garcia, Cecilia; Saltaren, Roque; Aracil, Rafael. Experiences in the development of a teleoperated parallel robot for aerial line maintenance. *Robotica*. 29(6), pp. 873 - 881. CAMBRIDGE UNIV PRESS, 2011. ISSN 0263-5747

DOI: 10.1017/S0263574711000087

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 3

Impact source: SCOPUS

Impact index in year of publication: 0.44

Position of publication: 298

Impact source: ISI

Impact index in year of publication: 1.032

Position of publication: 11

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Software

No. of journals in the cat.: 1.953

Category: Science Edition - ROBOTICS

No. of journals in the cat.: 19

Citations: 1

- 65** Garcia C.; Saltaren R.; Aracil R.. Experiences in the development of a teleoperated parallel robot for aerial line maintenance. *Robotica*. 29, pp. 873 - 881. 2011. ISSN 02635747

DOI: 10.1017/S0263574711000087

Type of production: Scientific paper

Source of citations: SCOPUS

Format: Journal

Citations: 1

- 66** Garcia, Cecilia; Artigas, Maria; Aracil, Rafael...[et al.]. OPTIMAL ANALYSIS OF A TELEOPERATED SYSTEM WITH AN ADAPTATIVE CONTROLLER. *International Journal Of Robotics & Automation*. 26(4), pp. 389 - 400. ACTA PRESS, 2011. ISSN 0826-8185

DOI: 10.2316/Journal.206.2011.4.206-3507

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 4

Impact source: SCOPUS

Impact index in year of publication: 0.222

Position of publication: 597

Impact source: ISI

Impact index in year of publication: 0.288

Position of publication: 51

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Electrical and Electronic Engineering

No. of journals in the cat.: 2.336

Category: Science Edition - AUTOMATION & CONTROL SYSTEMS

No. of journals in the cat.: 58

Citations: 3



- 67** García C.; Artigas M.; Aracil R.; Saltarén R.. Optimal analysis of a teleoperated system with an adaptative controller. International Journal of Robotics and Automation. 26, pp. 389 - 400. 2011. ISSN 08268185
DOI: 10.2316/Journal.206.2011.4.206-3507
Type of production: Scientific paper
Source of citations: SCOPUS
Format: Journal
Citations: 3
- 68** Carrera I.; Moreno H.; Saltarén R.; Pérez C.; Puglisi L.; Garcia C.. ROAD: Domestic assistant and rehabilitation robot. Medical and Biological Engineering and Computing. 49, pp. 1201 - 1211. 2011. ISSN 01400118
DOI: 10.1007/s11517-011-0805-4
Type of production: Scientific paper
Source of citations: SCOPUS
Format: Journal
Citations: 22
- 69** Carrera, Isela; Moreno, Hector A.; Saltaren, Roque...[et al.]. ROAD: domestic assistant and rehabilitation robot. Medical & Biological Engineering & Computing. 49(10), pp. 1201 - 1211. Springer Heidelberg, 2011. ISSN 0140-0118
DOI: 10.1007/s11517-011-0805-4
PMID: 21789672
Type of production: Scientific paper
Position of signature: 3
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 6
Impact source: SCOPUS
Impact index in year of publication: 0.703
Position of publication: 158
Category: Computer Science Applications
Impact source: ISI
No. of journals in the cat.: 1.807
Category: Science Edition - COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
Impact index in year of publication: 1.878
Position of publication: 25
No. of journals in the cat.: 99
Source of citations: SCOPUS
Citations: 34
- 70** Yime, E.; Saltaren, R.; García, C....[et al.]. Robot based on task-space dynamical model. Iet Control Theory And Applications. 5(18), pp. 2111 - 2119. INST ENGINEERING TECHNOLOGY-IET, 2011. ISSN 1751-8644
DOI: 10.1049/iet-cta.2010.0622
Type of production: Scientific paper
Position of signature: 2
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 4
Impact source: SCOPUS
Impact index in year of publication: 0.926
Position of publication: 93
Category: Electrical and Electronic Engineering
Impact source: ISI
Journal in the top 25%: Yes
No. of journals in the cat.: 2.336
Category: Science Edition - AUTOMATION & CONTROL SYSTEMS
Impact index in year of publication: 0.99
Position of publication: 29
No. of journals in the cat.: 58
Source of citations: SCOPUS
Citations: 7



- 71** Yime E.; Saltaren R.; Garcia C.; Sabater J.. Robot based on task-space dynamical model. IET Control Theory and Applications. 5, pp. 2111 - 2119. 2011. ISSN 17518644
DOI: 10.1049/iet-cta.2010.0622
Type of production: Scientific paper
Source of citations: SCOPUS
Format: Journal
Citations: 1
- 72** Salichs, Miguel A.; Malfaz, Maria; Gorostiza, Javi F.. Decision-Making in Robotics. Revista Iberoamericana De Automatica E Informatica Industrial. 7(4), pp. 5 - +. Comite Espanol Automatica Cea, 2010. ISSN 1697-7912
DOI: 10.4995/RIAI.2010.04.03
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 3
Impact source: ISI
Category: Science Edition - AUTOMATION & CONTROL SYSTEMS
Impact index in year of publication: 0.195
Position of publication: 56
No. of journals in the cat.: 60
Impact source: SCOPUS
Category: Control and Systems Engineering
Impact index in year of publication: 0.199
Position of publication: 233
No. of journals in the cat.: 887
Source of citations: WOS
Citations: 5
- 73** Cecilia García Cena; Roque Jacinto Saltaren Pazmiño; Javier López Blázquez...[et al.]. Desarrollo de un Interfaz de Realidad Virtual para los Robots Multiagentes Smart. Revista Iberoamericana De Automatica E Informatica Industrial. 7(4), pp. 17 - 27. Comite Espanol Automatica Cea, 2010. ISSN 1697-7912
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 4
Impact source: ISI
Category: Science Edition - AUTOMATION & CONTROL SYSTEMS
Impact index in year of publication: 0.195
Position of publication: 56
No. of journals in the cat.: 60
Impact source: SCOPUS
Category: Control and Systems Engineering
Impact index in year of publication: 0.199
Position of publication: 233
No. of journals in the cat.: 887
- 74** Cena C.; Saltarén R.; Blázquez J.; Aracil R.. Desarrollo de una interfaz de usuario para el sistema robótico multiagente SMART. RIAI - Revista Iberoamericana de Automatica e Informatica Industrial. 7, pp. 17 - 27. 2010. ISSN 16977912
DOI: 10.4995/RIAI.2010.04.04
Type of production: Scientific paper
Format: Journal
Source of citations: SCOPUS
Citations: 3
- 75** García Cena, Cecilia; Saltaren, Roque; Lopez Blazquez, Javier...[et al.]. Development of a Virtual Reality Interface for Smart Multiagent Robotic System. Revista Iberoamericana De Automatica E Informatica Industrial. 7(4), pp. 17 - +. Comite Espanol Automatica Cea, 2010. ISSN 1697-7912
DOI: 10.4995/RIAI.2010.04.04
Type of production: Scientific paper
Format: Journal

Position of signature: 2

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 0.195

Position of publication: 56

Impact source: SCOPUS

Impact index in year of publication: 0.199

Position of publication: 233

Source of citations: SCOPUS

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Science Edition - AUTOMATION & CONTROL SYSTEMS

No. of journals in the cat.: 60

Category: Control and Systems Engineering

No. of journals in the cat.: 887

Citations: 4

- 76** Cecilia García; Roque Jacinto Saltaren Pazmiño; María Artigas...[et al.]. Diseño de un Controlador Híbrido en Ambientes Virtuales para Teleoperación. Revista Iberoamericana De Automatica E Informatica Industrial. 7(3), pp. 53 - 62. Comité Español Automatica Cea, 2010. ISSN 1697-7912

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 0.195

Position of publication: 56

Impact source: SCOPUS

Impact index in year of publication: 0.199

Position of publication: 233

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Science Edition - AUTOMATION & CONTROL SYSTEMS

No. of journals in the cat.: 60

Category: Control and Systems Engineering

No. of journals in the cat.: 887

- 77** Garcia, Cecilia; Saltaren, Roque; Carelli, Ricardo...[et al.]. Hybrid Controller Design for Virtual Environments in Teleoperation. Revista Iberoamericana De Automatica E Informatica Industrial. 7(3), pp. 53 - +. Comité Español Automatica Cea, 2010. ISSN 1697-7912

DOI: 10.4995/RIAI.2010.03.05

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 0.195

Position of publication: 56

Impact source: SCOPUS

Impact index in year of publication: 0.199

Position of publication: 233

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Science Edition - AUTOMATION & CONTROL SYSTEMS

No. of journals in the cat.: 60

Category: Control and Systems Engineering

No. of journals in the cat.: 887

Citations: 2

- 78** Garcia C.; Saltaren R.; Carell R.; Artigas M.; Rafael A.. Hybrid Controller Design for Virtual Environments in Teleoperation. RIAI - Revista Iberoamericana de Automatica e Informatica Industrial. 7, pp. 53 - 62. 2010. ISSN 16977912

DOI: 10.4995/RIAI.2010.03.05



Type of production: Scientific paper
Source of citations: SCOPUS

Format: Journal
Citations: 1

- 79** Sabater Navarro, Jose; Garcia, Nicolas; Perez, Carlos...[et al.]. Kinematics of a robotic 3UPS1S spherical wrist designed for laparoscopic applications. International Journal Of Medical Robotics And Computer Assisted Surgery. 6(3), pp. 291 - 300. Wiley, 2010. ISSN 1478-5951

DOI: 10.1002/rcs.331

PMID: 20812269

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 6

Impact source: SCOPUS

Impact index in year of publication: 0.441

Position of publication: 267

Impact source: ISI

Impact index in year of publication: 1.257

Position of publication: 96

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Computer Science Applications

No. of journals in the cat.: 1.731

Category: Science Edition - SURGERY

No. of journals in the cat.: 187

Citations: 30

- 80** Alvarez, Cesar; Saltaren, Roque; Aracil, Rafael...[et al.]. Conception, Development and Advances in the Navigation Control of Underwater Parallel Robots: the REMO-I Robot. Revista Iberoamericana De Automatica E Informatica Industrial. 6(3), pp. 92 - +. Comite Espanol Automatica Cea, 2009. ISSN 1697-7912

DOI: 10.1016/S1697-7912(09)70268-7

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 4

Impact source: SCOPUS

Impact index in year of publication: 0.193

Position of publication: 222

Impact source: ISI

Impact index in year of publication: 0.291

Position of publication: 55

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Control and Systems Engineering

No. of journals in the cat.: 784

No. of journals in the cat.: 58

Citations: 10

- 81** Álvarez C.; Saltaren R.; Aracil R.; García C.. Conception, development and advances in the navigation control of underwater parallel robots: The REMO-I robot. RIAI - Revista Iberoamericana de Automatica e Informatica Industrial. 6, pp. 92 - 100. 2009. ISSN 16977912

DOI: 10.1016/S1697-7912(09)70268-7

Type of production: Scientific paper

Source of citations: SCOPUS

Format: Journal

Citations: 9

- 82** Sabater J; Aracil R; Saltarén R...[et al.]. A novel parallel haptic interface for telerobotic systems. Springer Tracts In Advanced Robotics. 31, pp. 45 - 59. Springer Nature, 2007. ISSN 1610-7438

DOI: 10.1007/978-3-540-71364-7_4

Type of production: Scientific paper

Format: Journal

**Position of signature:** 3**Total no. authors:** 4**Impact source:** SCOPUS**Impact index in year of publication:** 0.133**Position of publication:** 608**Source of citations:** SCOPUS**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Electrical and Electronic Engineering**No. of journals in the cat.:** 1.395**Citations:** 2

- 83** Sabater J.; Aracil R.; Saltaren R.; Payá L.. A novel parallel haptic interface for telerobotic systems. Springer Tracts in Advanced Robotics. 31, pp. 45 - 59. 2007. ISSN 16107438, ISBN 3540713638

DOI: 10.1007/978-3-540-71364-7_4**Type of production:** Scientific paper**Source of citations:** SCOPUS**Format:** Journal**Citations:** 2

- 84** Saltaren, Roque; Aracil, Rafael; Alvarez, Cesar...[et al.]. Exploring deep sea by teleoperated robot. Ieee Robotics & Automation Magazine. 14(3), pp. 65 - 75. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 2007. ISSN 1070-9932

DOI: 10.1109/M-RA.2007.905502**Type of production:** Scientific paper**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 5**Impact source:** SCOPUS**Impact index in year of publication:** 0.852**Position of publication:** 119**Impact source:** ISI**Impact index in year of publication:** 0.892**Position of publication:** 25**Source of citations:** WOS**Format:** Journal**Category:** Electrical and Electronic Engineering**Journal in the top 25%:** Yes**No. of journals in the cat.:** 1.395**Category:** Science Edition - AUTOMATION & CONTROL SYSTEMS**No. of journals in the cat.:** 51**Citations:** 17

- 85** Saltarén R; Aracil R; Alvarez C...[et al.]. Field and service applications - Exploring deep sea by teleoperated robot - An underwater parallel robot with high navigation capabilities. Ieee Robotics & Automation Magazine. 14(3), pp. 65 - 75. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 2007. ISSN 1070-9932

DOI: 10.1109/MRA.2007.905502**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 5**Impact source:** SCOPUS**Impact index in year of publication:** 0.852**Position of publication:** 119**Impact source:** ISI**Impact index in year of publication:** 0.892**Position of publication:** 25**Source of citations:** SCOPUS**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Electrical and Electronic Engineering**Journal in the top 25%:** Yes**No. of journals in the cat.:** 1.395**Category:** Science Edition - AUTOMATION & CONTROL SYSTEMS**No. of journals in the cat.:** 51**Citations:** 24



- 86** Saltarén R.; Aracil R.; Alvarez C.; Yime E.; Sabater Navarro J.. Field and service applications - Exploring deep sea by teleoperated robot - An underwater parallel robot with high navigation capabilities. IEEE Robotics and Automation Magazine. 14, pp. 65 - 75. 2007. ISSN 10709932
DOI: 10.1109/MRA.2007.905502
Type of production: Scientific paper **Format:** Journal
Source of citations: SCOPUS **Citations:** 15
- 87** Ernesto Rubio R.; Luis Hernández S.; Rafael Aracil S.; Roque Saltarén P.; Raúl Moreno Q.. Modelling, identification and control of electro pneumatic linear actuators. Application in tow degree of freedom platform. RIAI - Revista Iberoamericana de Automatica e Informatica Industrial. 4, 2007. ISSN 16977912
Type of production: Scientific paper **Format:** Journal
Source of citations: SCOPUS **Citations:** 4
- 88** Saltaren, Roque J.; Sabater, Jose M.; YIME, EUGENIO...[et al.]. Performance evaluation of spherical parallel platforms for humanoid robots. Robotica. 25(3), pp. 257 - 267. CAMBRIDGE UNIV PRESS, 2007. ISSN 0263-5747
DOI: 10.1017/S0263574706003043
Type of production: Scientific paper **Format:** Journal
Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 6 **Corresponding author:** Yes
Impact source: SCOPUS **Category:** Control and Systems Engineering
Impact index in year of publication: 0.357 **No. of journals in the cat.:** 452
Position of publication: 82 **Category:** Science Edition - ROBOTICS
Impact source: ISI **No. of journals in the cat.:** 13
Impact index in year of publication: 0.41 **Citations:** 19
Position of publication: 11
Source of citations: SCOPUS
- 89** Saltaren R.; Sabater J.; Yime E.; Azorin J.; Aracil R.; Garcia N.. Performance evaluation of spherical parallel platforms for humanoid robots. Robotica. 25, pp. 257 - 267. 2007. ISSN 02635747
DOI: 10.1017/S0263574706003043
Type of production: Scientific paper **Format:** Journal
Source of citations: SCOPUS **Citations:** 16
- 90** Aracil, R; Saltaren, RJ; Reinoso, O. A climbing parallel robot. Ieee Robotics & Automation Magazine. 13(1), pp. 16 - 22. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 2006. ISSN 1070-9932
DOI: 10.1109/MRA.2006.1598049
Type of production: Scientific paper **Format:** Journal
Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 3 **Category:** Electrical and Electronic Engineering
Impact source: SCOPUS **No. of journals in the cat.:** 1.105
Impact index in year of publication: 0.457 **Category:** Science Edition - ROBOTICS
Position of publication: 208 **No. of journals in the cat.:** 12
Impact source: ISI
Impact index in year of publication: 0.652
Position of publication: 6

**Source of citations:** SCOPUS**Citations:** 66

91 Aracil R.; Saltarén R.; Reinoso O.. A climbing parallel robot. IEEE Robotics and Automation Magazine. 13, pp. 16 - 22. 2006. ISSN 10709932

DOI: 10.1109/MRA.2006.1598049**Type of production:** Scientific paper**Format:** Journal**Source of citations:** SCOPUS**Citations:** 53

92 Sabater, Jose M.; Saltaren, Roque; Aracil, Rafael...[et al.]. Teleoperated parallel climbing robots in nuclear installations. Industrial Robot-The International Journal Of Robotics Research And Application. 33(5), pp. 381 - 386. Emerald Group Publishing Ltd, 2006. ISSN 0143-991X

DOI: 10.1108/01439910610685052**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 5**Impact source:** SCOPUS**Category:** Industrial and Manufacturing Engineering**Impact index in year of publication:** 0.183**Position of publication:** 139**No. of journals in the cat.:** 398**Impact source:** ISI**Category:** Science Edition - ENGINEERING, INDUSTRIAL**Impact index in year of publication:** 0.278**Position of publication:** 26**No. of journals in the cat.:** 32**Source of citations:** SCOPUS**Citations:** 28

93 Sabater J.; Saltarén R.; Aracil R.; Yime E.; Azorín J.. Teleoperated parallel climbing robots in nuclear installations. Industrial Robot. 33, pp. 381 - 386. 2006. ISSN 0143991X

DOI: 10.1108/01439910610685052**Type of production:** Scientific paper**Format:** Journal**Source of citations:** SCOPUS**Citations:** 27

94 Garcia-Aracil N; Sabater J; Azorin J...[et al.]. Visual Control of robots with changes of visibility in image features. IEEE Latin America Transactions. 4(1), pp. 27 - 33. IEEE, 2006. ISSN 1548-0992

DOI: 10.1109/TLA.2006.1642446**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 4**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 5**Impact source:** SCOPUS**Category:** Electrical and Electronic Engineering**Impact index in year of publication:** 0.111**Position of publication:** 675**No. of journals in the cat.:** 1.105**Source of citations:** SCOPUS**Citations:** 9

95 García-Aracil N.; Sabater J.; Azorín J.; Saltarén R.; Pérez C.. Visual Control of robots with changes of visibility in image features. IEEE Latin America Transactions. 4, pp. 27 - 33. 2006. ISSN 15480992

DOI: 10.1109/TLA.2006.1642446**Type of production:** Scientific paper**Format:** Journal**Source of citations:** SCOPUS**Citations:** 8



- 96** Saltaren, R; Aracil, R; Reinoso, O...[et al.]. Climbing parallel robot: A computational and experimental study of its performance around structural nodes. Ieee Transactions On Robotics. 21(6), pp. 1056 - 1066. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 2005. ISSN 1552-3098
DOI: 10.1109/TRO.2005.855991
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 4
Impact source: SCOPUS
Impact index in year of publication: 0.354
Position of publication: 278
Impact source: ISI
Impact index in year of publication: 1.486
Position of publication: 1
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Electrical and Electronic Engineering
No. of journals in the cat.: 953
Category: Science Edition - ROBOTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 11
Citations: 28
- 97** Saltaren R.; Aracil R.; Reinoso O.; Scarano M.. Climbing parallel robot: A computational and experimental study of its performance around structural nodes. IEEE Transactions on Robotics. 21, pp. 1056 - 1066. 2005. ISSN 15523098
DOI: 10.1109/TRO.2005.855991
Type of production: Scientific paper
Source of citations: SCOPUS
Format: Journal
Citations: 23
- 98** Sabater, JA; Azorin, JA; Aracil, R...[et al.]. Magister-P; a 6-URS parallel haptic device with open control architecture. Robotica. 23(2), pp. 177 - 187. CAMBRIDGE UNIV PRESS, 2005. ISSN 0263-5747
DOI: 10.1017/S0263574704000608
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 4
Impact source: SCOPUS
Impact index in year of publication: 0.402
Position of publication: 214
Impact source: ISI
Impact index in year of publication: 0.492
Position of publication: 6
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Software
No. of journals in the cat.: 597
Category: Science Edition - ROBOTICS
No. of journals in the cat.: 11
Citations: 9
- 99** Sabater J.; Azorin J.; Aracil R.; Saltaren R.. Magister-P; a 6-URS parallel haptic device with open control architecture. Robotica. 23, pp. 177 - 187. 2005. ISSN 02635747
DOI: 10.1017/S0263574704000608
Type of production: Scientific paper
Source of citations: SCOPUS
Format: Journal
Citations: 8



- 100** Saltaren, R; Aracil, R; Reinoso, O. Analysis of a climbing parallel robot for construction applications. Computer-Aided Civil And Infrastructure Engineering. 19(6), pp. 436 - 445. Wiley, 2004. ISSN 1093-9687
DOI: 10.1111/j.1467-8667.2004.00368.x
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 3
Impact source: ISI
Impact index in year of publication: 0.219
Position of publication: 57
Impact source: SCOPUS
Impact index in year of publication: 0.61
Position of publication: 103
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - ENGINEERING, CIVIL
No. of journals in the cat.: 79
Category: Computer Science Applications
No. of journals in the cat.: 516
Citations: 1
- 101** Saltaren R.; Aracil R.; Reinoso O.. Analysis of a climbing parallel robot for construction applications. Computer-Aided Civil and Infrastructure Engineering. 19, pp. 436 - 445. 2004. ISSN 10939687
DOI: 10.1111/j.1467-8667.2004.00368.x
Type of production: Scientific paper
Format: Journal
- 102** Sabater, JM; Saltaren, R; Aracil, R. Design, modelling and implementation of a 6 URS parallel haptic device. Robotics And Autonomous Systems. 47(1), pp. 1 - 10. North-Holland, 2004. ISSN 0921-8890
DOI: 10.1016/j.robot.2004.02.007
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 3
Impact source: ISI
Impact index in year of publication: 0.468
Position of publication: 24
Impact source: SCOPUS
Impact index in year of publication: 0.488
Position of publication: 141
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - AUTOMATION & CONTROL SYSTEMS
No. of journals in the cat.: 46
Category: Computer Science Applications
No. of journals in the cat.: 516
Citations: 21
- 103** Sabater J.; Saltarén R.; Aracil R.. Design, modelling and implementation of a 6 URS parallel haptic device. Robotics and Autonomous Systems. 47, pp. 1 - 10. 2004. ISSN 09218890
DOI: 10.1016/j.robot.2004.02.007
Type of production: Scientific paper
Source of citations: SCOPUS
Format: Journal
Citations: 19
- 104** Almonacid, M; Saltaren, RJ; Aracil, R...[et al.]. Motion planning of a climbing parallel robot. I E E E Transactions On Robotics And Automation. 19(3), pp. 485 - 489. 2003. ISSN 1042-296X
DOI: 10.1109/TRA.2003.810238
Type of production: Scientific paper
Position of signature: 2
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee



Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 2.103

Position of publication: 20

Impact source: SCOPUS

Impact index in year of publication: 2.927

Position of publication: 15

Source of citations: SCOPUS

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Journal in the top 25%: Yes

No. of journals in the cat.: 203

Category: Electrical and Electronic Engineering

Journal in the top 25%: Yes

No. of journals in the cat.: 904

Citations: 82

105 Almonacid M.; Saltarén R.; Aracil R.; Reinoso O.. Motion planning of a climbing parallel robot. IEEE Transactions on Robotics and Automation. 19, pp. 485 - 489. 2003. ISSN 1042296X

DOI: 10.1109/TRA.2003.810238

Type of production: Scientific paper

Source of citations: SCOPUS

Format: Journal

Citations: 70

106 Aracil, R; Saltaren, R; Reinoso, O. Parallel robots for autonomous climbing along tubular structures. Robotics And Autonomous Systems. 42(2), pp. 125 - 134. North-Holland, 2003. ISSN 0921-8890

DOI: 10.1016/S0921-8890(02)00360-3

Type of production: Scientific paper

Position of signature: 2

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 3

Impact source: ISI

Impact index in year of publication: 0.62

Position of publication: 5

Category: Science Edition - ROBOTICS

No. of journals in the cat.: 11

Impact source: SCOPUS

Impact index in year of publication: 0.831

Position of publication: 86

Category: Software

Journal in the top 25%: Yes

No. of journals in the cat.: 517

Citations: 42

107 Aracil R.; Saltarén R.; Reinoso O.. Parallel robots for autonomous climbing along tubular structures. Robotics and Autonomous Systems. 42, pp. 125 - 134. 2003. ISSN 09218890

DOI: 10.1016/S0921-8890(02)00360-3

Type of production: Scientific paper

Source of citations: SCOPUS

Format: Journal

Citations: 35

108 Carpio-Aleman MA; Tenesaca JF; Viola J...[et al.]. Adaptive modeling and control applied to a hydraulic motor. 2019 Ieee International Autumn Meeting On Power, Electronics And Computing, Ropec 2019. 2019. ISBN 9781728128986

DOI: 10.1109/ROPEC48299.2019.9057135

Position of signature: 4

Degree of contribution: Author or co-author of educational publication

Total no. authors: 6

Source of citations: SCOPUS

Citations: 1



- 109** Marco A. Carpio; Raúl E. Astudillo; José M. Aller...[et al.]. Cables Configuration Analysis for a planar CDPR, based on the Lowest Kinematic Energy for a Rotation Movement. 2019 Ieee 4th Colombian Conference On Automatic Control (Ccac). pp. 1 - 6. 2019. ISBN 9781538669631
DOI: 10.1109/CCAC.2019.8921200
Position of signature: 4
Total no. authors: 7
Degree of contribution: Author or co-author of educational publication
- 110** Marco A. Carpio; Juan C. Placencia; JoséM. Aller...[et al.]. Modeling and Oscillations Control of a Planar Parallel Robot Subsystem Activated by Cable. 2019 Ieee 4th Colombian Conference On Automatic Control (Ccac). pp. 1 - 5. 2019. ISBN 9781538669631
DOI: 10.1109/CCAC.2019.8920840
Position of signature: 4
Total no. authors: 7
Source of citations: SCOPUS
Citations: 1
Degree of contribution: Author or co-author of educational publication
- 111** Guerrero JMC; Loja EV; Carpio MA...[et al.]. Position control of a suspended mass through two cables under the effects of the catenary. 2019 Ieee International Autumn Meeting On Power, Electronics And Computing, Ropec 2019. 2019. ISBN 9781728128986
DOI: 10.1109/ROPEC48299.2019.9057092
Position of signature: 5
Total no. authors: 5
Degree of contribution: Author or co-author of educational publication
- 112** Carpio M; Siguenza H; Aller JM...[et al.]. Shaft vibrations reduction for a PMSM using a DTC speed and position controller. 2019 Ieee International Autumn Meeting On Power, Electronics And Computing, Ropec 2019. 2019. ISBN 9781728128986
DOI: 10.1109/ROPEC48299.2019.9057074
Position of signature: 6
Total no. authors: 7
Degree of contribution: Author or co-author of educational publication
- 113** Tenesaca J; Carpio M; Saltarén R...[et al.]. Experimental determination of the nonlinear model for a proportional hydraulic valve. 2017 Ieee International Autumn Meeting On Power, Electronics And Computing, Ropec 2017. 2018-January, pp. 1 - 4. 2018. ISBN 9781538608197
DOI: 10.1109/ROPEC.2017.8261602
Position of signature: 3
Total no. authors: 4
Degree of contribution: Author or co-author of educational publication
- 114** Barroso A; Saltarén R; Portilla G...[et al.]. Smooth Path Planner for Dynamic Simulators Based on Cable-Driven Parallel Robots. Proceedings Of International Conference On Smart Systems And Technologies 2018, Sst 2018. pp. 145 - 150. 2018. ISBN 9781538671894
DOI: 10.1109/SST.2018.8564635
Position of signature: 2
Total no. authors: 5
Source of citations: SCOPUS
Citations: 3
Degree of contribution: Author or co-author of educational publication



- 115** Puglisi, Lisandro J; Saltaren Pazmino, Roque; Rey Portoles, German...[et al.]. Experiences on the Design of a Needle Insertion Surgery Robot: Kinematic Analysis. Lecture Notes In Networks And Systems. 13, pp. 36 - 47. 2017. ISSN 2367-3370
DOI: 10.1007/978-3-319-54377-2_4
Position of signature: 2
Total no. authors: 5
Degree of contribution: Author or co-author of educational publication
- 116** Castillo G; Pintado G; Carpio A...[et al.]. Linearization and control of a system of pneumatic suspension of a sphere. Proceedings Of The 2017 Ieee 24th International Congress On Electronics, Electrical Engineering And Computing, Intercon 2017. 2017. ISBN 9781509063628
DOI: 10.1109/INTERCON.2017.8079657
Position of signature: 4
Total no. authors: 5
Source of citations: SCOPUS
Citations: 1
Degree of contribution: Author or co-author of educational publication
- 117** Garcia Montano, Jorge; Garcia Cena, Cecilia E.; Monge Chamorro, Luis J...[et al.]. Mechanical Design of a Robotic Exoskeleton for Upper Limb Rehabilitation. Online Engineering & Internet Of Things. 13, pp. 297 - 308. Springer Nature, 2017. ISBN 23673370
DOI: 10.1007/978-3-319-54377-2_25
Position of signature: 5
Total no. authors: 5
Source of citations: WOS
Citations: 5
Degree of contribution: Author or co-author of educational publication
- 118** Chamorro, Luis J. Monge; Cena, Cecilia E. Garcia; Destarac, Marie Andre...[et al.]. Simulation of Rehabilitation Therapies for Brachial Plexus Injury Under the Influence of External Actuators. Biosystems And Biorobotics. 15, pp. 1043 - 1047. Springer, 2017. ISSN 2195-3570
DOI: 10.1007/978-3-319-46669-9_169
Position of signature: 4
Total no. authors: 4
Impact source: SCOPUS
Impact index in year of publication: 0.163
Position of publication: 332
Source of citations: WOS
Category: Artificial Intelligence
No. of journals in the cat.: 1.017
Citations: 3
Degree of contribution: Author or co-author of educational publication
- 119** Destarac, Marie Andre; Cena, Cecilia E. Garcia; Pazmino, Roque Saltaren. Simulation of the Length Change in Muscles During the Arm Rotation for the Upper Brachial Plexus Injury. Biosystems And Biorobotics. 15, pp. 1263 - 1268. Springer, 2017. ISSN 2195-3570
DOI: 10.1007/978-3-319-46669-9_206
Position of signature: 3
Total no. authors: 3
Impact source: SCOPUS
Impact index in year of publication: 0.163
Position of publication: 332
Source of citations: SCOPUS
Category: Artificial Intelligence
No. of journals in the cat.: 1.017
Citations: 2
Degree of contribution: Author or co-author of educational publication



- 120** Yime E; Quintero J; Saltarén R...[et al.]. A new approach to avoid internal singularities in CMG with pyramidal shape using sliding control. 2009 European Control Conference, Ecc 2009. pp. 3899 - 3903. 2014. ISBN 9783952417393
DOI: 10.23919/ECC.2009.7075008
Position of signature: 3 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 4
Source of citations: SCOPUS **Citations:** 1
- 121** Garcia Cena C; Pazmiño R; Destarac M...[et al.]. Skeletal modeling, analysis and simulation of upper limb of human shoulder under brachial plexus injury. Advances In Intelligent Systems And Computing. 252, pp. 195 - 207. Springer, 2014. ISSN 2194-5357
DOI: 10.1007/978-3-319-03413-3_14
Degree of contribution: Author or co-author of educational publication
Total no. authors: 6
Source of citations: SCOPUS **Citations:** 5
- 122** Tafur, Julio C.; Garcia, Cecilia; Aracil, Rafael...[et al.]. Stability Analysis of Teleoperation System by State Convergence with Variable Time Delay. Proceedings Of The American Control Conference. pp. 5696 - 5701. IEEE, 2013. ISSN 0743-1619
Position of signature: 4 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 4
Impact source: SCOPUS **Category:** Electrical and Electronic Engineering
Impact index in year of publication: 0.526 **Journal in the top 25%:** Yes
Position of publication: 222 **No. of journals in the cat.:** 1.962
Source of citations: SCOPUS **Citations:** 3
- 123** Tafur J; García C; Aracil R...[et al.]. Advances in control of teleoperation system by state convergence. Wmsci 2012 - The 16th World Multi-Conference On Systemics, Cybernetics And Informatics, Proceedings. 1, pp. 228 - 233. 2012.
Position of signature: 4 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 4
- 124** Tafur J; García C; Aracil R...[et al.]. Control of a teleoperation system by state convergence with variable time delay. 2012 9th France-Japan And 7th Europe-Asia Congress On Mechatronics, Mecatronics 2012 / 13th International Workshop On Research And Education In Mechatronics, Rem 2012. pp. 40 - 47. 2012.
DOI: 10.1109/MECATRONICS.2012.6450986
Position of signature: 4 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 4
Source of citations: SCOPUS **Citations:** 1
- 125** Banfield, Ilka; Saltaren, Roque J.; Puglisi, Lisandro J....[et al.]. HYBRID POSITION-FORCE CONTROL OF CLIMBING PARALLEL ROBOT USING ELECTROHYDRAULIC SERVO ACTUATORS. Proceedings Of The Asme International Design Engineering Technical Conferences And Computers And Information In Engineering Conference - 2011, Vol 6, Pts A And b. pp. 1203 - 1210. 2012.
Position of signature: 2



Total no. authors: 4

Degree of contribution: Author or co-author of educational publication

- 126** Tafur J; García C; Aracil R...[et al.]. Control of a nonlinear teleoperation system by state convergence. Ieee International Conference On Control And Automation, Icca. pp. 489 - 494. 2011. ISSN 1948-3457

DOI: 10.1109/ICCA.2011.6137947

Position of signature: 4

Degree of contribution: Author or co-author of educational publication

Total no. authors: 4

Source of citations: SCOPUS

Citations: 9

- 127** YIME, EUGENIO; Moreno, Hector; Saltarén R...[et al.]. Design of a CMG for Underwater Robots. Oceans Conference Record (Ieee). 2011. ISSN 0197-7385

DOI: 10.1109/Oceans-Spain.2011.6003401

Position of signature: 3

Degree of contribution: Author or co-author of educational publication

Total no. authors: 4

Source of citations: SCOPUS

Citations: 1

- 128** Banfield I; Saltarén R; Puglisi L...[et al.]. Hybrid position-force control of climbing parallel robot using electrohydraulic servo actuators. Proceedings Of The Asme Design Engineering Technical Conference. 6(PARTS A AND B), pp. 1203 - 1210. American Society of Mechanical Engineers, 2011.

DOI: 10.1115/DETC2011-48349

Position of signature: 2

Degree of contribution: Author or co-author of educational publication

Total no. authors: 4

Impact source: SCOPUS

Category: Computer Science Applications

Impact index in year of publication: 0.17

Position of publication: 724

No. of journals in the cat.: 1.807

Source of citations: SCOPUS

Citations: 2

- 129** Moreno, Hector A.; Puglisi, Lisandro; Saltaren, Roque...[et al.]. Kinematic Analysis of an Underwater Parallel Robot. Oceans Conference Record (Ieee). 2011. ISSN 0197-7385

Degree of contribution: Author or co-author of educational publication

Total no. authors: 4

- 130** Moreno H; Puglisi L; Saltarén R...[et al.]. Kinematic analysis of an underwater parallel robot. Oceans 2011 Ieee - Spain. 2011.

DOI: 10.1109/Oceans-Spain.2011.6003402

Position of signature: 3

Degree of contribution: Author or co-author of educational publication

Total no. authors: 4

Source of citations: SCOPUS

Citations: 1

- 131** Banfield, Ilka; Pena, Cesar; Saltarén R...[et al.]. HAPTIC CONTROL FOR THE TELEOPERATION OF A CLIMBING PARALLEL ROBOT. Mobile Robotics-Solutions And Challenges. pp. 835 - 842. 2010.

DOI: 10.1142/9789814291279_0102

Position of signature: 3

Degree of contribution: Author or co-author of educational publication

**Total no. authors:** 5

- 132** Moreno, Hector A.; Saltaren, Roque; Pamanes, Alfonso...[et al.]. MOTION STRATEGY FOR THE TREPА CLIMBING ROBOT ON A METALLIC ORTHOGONAL STRUCTURE. Emerging Trends In Mobile Robotics. pp. 1161 - 1168. 2010.

Position of signature: 2**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 4

- 133** Moreno HA; Saltarén R; Pamanes A...[et al.]. Motion strategy for the trepa climbing robot on a metallic orthogonal structure. Emerging Trends In Mobile Robotics- Proceedings Of The 13th International Conference On Climbing And Walking Robots And The Support Technologies For Mobile Machines, Clawar 2010. pp. 1161 - 1168. 2010. ISBN 9789814327978

DOI: 10.1142/9789814329927_0142**Position of signature:** 2**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 4**Source of citations:** SCOPUS**Citations:** 1

- 134** YIME, EUGENIO; Saltaren, Roque; Diaz, James. Robust Adaptive Control of the Stewart-Gough Robot in the Task Space. Proceedings Of The American Control Conference. pp. 5248 - 5253. IEEE, 2010. ISSN 0743-1619

Position of signature: 2**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 3**Impact source:** SCOPUS**Category:** Electrical and Electronic Engineering**Impact index in year of publication:** 0.391**Journal in the top 25%:** Yes**Position of publication:** 296**No. of journals in the cat.:** 2.373**Source of citations:** WOS**Citations:** 9

- 135** Yime E; Saltarén R; Diaz J. Robust adaptive control of the Stewart-Gough robot in the task space. Proceedings Of The 2010 American Control Conference, Acc 2010. pp. 5248 - 5253. 2010.

Position of signature: 2**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 3**Source of citations:** SCOPUS**Citations:** 14

- 136** Pena, C.; Aracil, R.; Saltaren, R....[et al.]. Advances in Developing Telemanipulators for an Underwater Robot - Remo II. Oceans Conference Record (Ieee). pp. 656 - 663. 2009. ISSN 0197-7385

DOI: 10.1109/OCEANSE.2009.5278110**Position of signature:** 3**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 6**Impact source:** SCOPUS**Category:** Science Edition - OCEANOGRAPHY**Impact index in year of publication:** 0.124**Position of publication:** 101**No. of journals in the cat.:** 145

- 137** Morales, R.; García, N.; Sabater, J. M....[et al.]. Electronic schuko socket for electrical energy saving. 2009 Ieee Conference On Emerging Technologies & Factory Automation (Efta 2009). Univ Politecn Madrid, Fac Informat, DATSI, E-28660 Madrid, Spain., 2009. ISSN 1946-0740

DOI: 10.1109/ETFA.2009.5347253



Position of signature: 6

Degree of contribution: Author or co-author of educational publication

Total no. authors: 6

Source of citations: WOS

Citations: 1

- 138** Rubio R, Ernesto; Hernandez S, Luis; Aracil S, Rafael...[et al.]. Implementation of Decoupled Model-Based Controller in a 2-DOF Pneumatic Platform used in Low-Cost Driving Simulators. Cerma: 2009 Electronics Robotics And Automotive Mechanics Conference. pp. 338 - +. 2009. ISBN 978-0-7695-3799-3

DOI: 10.1109/CERMA.2009.22

Position of signature: 4

Degree of contribution: Author or co-author of educational publication

Total no. authors: 5

Source of citations: SCOPUS

Citations: 9

- 139** Saltarén R; Saltaren, Roque; Aracil, Rafael...[et al.]. Underwater Parallel Robot for oceanic measuring and observations-remo I: development and navigation control advances. Oceans Conference Record (Ieee). pp. 314 - 322. 2009. ISSN 0197-7385

DOI: 10.1109/OCEANSE.2009.5278109

Position of signature: 1

Degree of contribution: Author or co-author of educational publication

Total no. authors: 6

Impact source: SCOPUS

Category: Science Edition - OCEANOGRAPHY

Impact index in year of publication: 0.124

Position of publication: 101

No. of journals in the cat.: 145

Source of citations: SCOPUS

Citations: 4

- 140** Campos, Alexandre; Quintero, Jacqueline; Saltaren, Roque...[et al.]. An Active Helideck Testbed for Floating Structures based on a Stewart-Gough Platform. 2008 Ieee/Rsj International Conference On Robots And Intelligent Systems, Vols 1-3, Conference Proceedings. pp. 3705 - 3710. 2008.

DOI: 10.1109/IROS.2008.4650750

Position of signature: 3

Degree of contribution: Author or co-author of educational publication

Total no. authors: 5

Source of citations: SCOPUS

Citations: 23

- 141** Almonacid M; Saltarén R; Aracil R...[et al.]. Computational cost of two forward kinematic models for a S-G based climbing robot. Advances In Mobile Robotics - Proceedings Of The 11th International Conference On Climbing And Walking Robots And The Support Technologies For Mobile Machines, Clawar 2008. pp. 902 - 910. 2008.

Position of signature: 2

Degree of contribution: Author or co-author of educational publication

Total no. authors: 7

- 142** Moreno, Hector; Saltarén R; Saltaren, Roque...[et al.]. Multibody dynamics model of a human hand for haptics interaction. Lecture Notes In Computer Science. 5024, pp. 700 - 705. Springer Verlag, 2008. ISSN 0302-9743

DOI: 10.1007/978-3-540-69057-3_89

Position of signature: 2

Degree of contribution: Author or co-author of educational publication

Total no. authors: 6

Impact source: SCOPUS

Category: Computer Science (miscellaneous)

Impact index in year of publication: 0.277

**Position of publication:** 106**No. of journals in the cat.:** 424

- 143** Peña C; Aracil R; Saltarén R...[et al.]. Teleoperation of a manipulator with a master robot of different kinematics: Using bilateral control by state convergence. *Advances In Mobile Robotics - Proceedings Of The 11th International Conference On Climbing And Walking Robots And The Support Technologies For Mobile Machines, Clawar 2008.* pp. 804 - 811. 2008.

Position of signature: 3**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 5

- 144** Pena, Cesar; Aracil, Rafael; Saltarén R...[et al.]. Teleoperation of a robot using a haptic device with different kinematics. *Lecture Notes In Computer Science.* 5024, pp. 181 - 186. Springer Verlag, 2008. ISSN 0302-9743

DOI: 10.1007/978-3-540-69057-3_22**Position of signature:** 3**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 3**Impact source:** SCOPUS**Category:** Computer Science (miscellaneous)**Impact index in year of publication:** 0.277**Position of publication:** 106**No. of journals in the cat.:** 424**Source of citations:** SCOPUS**Citations:** 7

- 145** Saltaren, R. Image-based and intrinsic-free visual navigation of a mobile robot defined as a global visual servoing task. pp. 87 - 93. *Univ Politecn Madrid, Dept Automat Elect & Informat Ind, Madrid, Spain., 2007.* ISBN 10.1007/978-1-4020-5626-0_11

DOI: 10.1007/978-1-4020-5626-0_11**Format:** Book**Position of signature:** 6**Degree of contribution:** Author or co-author of entire book**Total no. authors:** 6**Corresponding author:** Yes

- 146** Sabater J; Garcia N; Perez C...[et al.]. Design and analysis of a spherical humanoid neck using screw theory. *Proceedings Of The First Ieee/Ras-Embs International Conference On Biomedical Robotics And Biomechatronics, 2006, Biorob 2006.* 2006, pp. 1166 - 1171. 2006.

DOI: 10.1109/BIOROB.2006.1639250**Position of signature:** 5**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 6**Source of citations:** SCOPUS**Citations:** 5

- 147** Beira, Ricardo; Lopes, Manuel; Praca, Miguel...[et al.]. Design of the Robot-Cub (iCub) head. *Proceedings - Ieee International Conference On Robotics And Automation.* 2006, pp. 94 - +. IEEE, 2006. ISSN 1050-4729

DOI: 10.1109/ROBOT.2006.1641167**Position of signature:** 8**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 8**Impact source:** SCOPUS**Impact index in year of publication:** 0.557**Source of citations:** SCOPUS**Citations:** 152



- 148** Escalera J; Saltarén R; Ferre M...[et al.]. Base molecule design and simulation of modular robot RobMAT. 16th Triennial World Congress Of International Federation Of Automatic Control, Ifac 2005. 16, pp. 25 - 30. IFAC Secretariat, 2005. ISSN 1474-6670
Position of signature: 2 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 5
Source of citations: SCOPUS **Citations:** 4
- 149** Aracil R; Garcia N; Perez C...[et al.]. Performance analysis of a continuous vision-based control system for the navigation of a mobile robot. 16th Triennial World Congress Of International Federation Of Automatic Control, Ifac 2005. 16, pp. 7 - 12. IFAC Secretariat, 2005. ISSN 1474-6670
Position of signature: 7 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 7
- 150** Ángel L; Sebastián J; Saltarén R...[et al.]. RoboTennis system part II: Dynamics and control. Proceedings Of The 44th Ieee Conference On Decision And Control, And The European Control Conference, Cdc-Ecc '05. 2005, pp. 2030 - 2034. 2005.
DOI: 10.1109/CDC.2005.1582459
Position of signature: 3 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 4
Source of citations: SCOPUS **Citations:** 15
- 151** Angel, L; Sebastián J; Sebastian, JM...[et al.]. RoboTennis: Design, dynamic modeling and preliminary control. 2005 Ieee/Asme International Conference On Advanced Intelligent Mechatronics, Vols 1 And 2. 1, pp. 747 - 752. 2005.
Position of signature: 3 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 5
Source of citations: SCOPUS **Citations:** 12
- 152** Silva, LA; Sebastian, JM; Saltaren, R...[et al.]. RoboTennis: Optimal design of a parallel robot with high performance. 2005 Ieee/Rsj International Conference On Intelligent Robots And Systems, Vols 1-4. pp. 450 - 455. 2005.
DOI: 10.1109/IROS.2005.1545022
Position of signature: 3 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 5
Source of citations: SCOPUS **Citations:** 19
- 153** Angel, L; Saltaren, R; Sebastián J...[et al.]. Robotenis: Parallel robot with visual control. Robotics: Trends, Principles And Applications, Vol 15. 15, pp. 405 - 412. 2004.
Position of signature: 2 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 5
Source of citations: SCOPUS **Citations:** 3
- 154** Sabater, JM; Azorin, JM; Garcia, N...[et al.]. Kinematics control of a 6 URS parallel platform working as an impedance display. Cca 2003: Proceedings Of 2003 Ieee Conference On Control Applications, Vols 1 And 2. 2, pp. 1142 - 1146. 2003.
Position of signature: 5

**Total no. authors:** 5**Source of citations:** SCOPUS**Degree of contribution:** Author or co-author of educational publication**Citations:** 2**155** Almonacid M; Aracil R; Agrawal S...[et al.]. Multibody dynamic analysis of a 6-dof parallel robot. 70, pp. 845 - 851. 2002.**Position of signature:** 4**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 4**Source of citations:** SCOPUS**Citations:** 1**156** Almonacid M; Aracil R; Agrawal S...[et al.]. Multibody dynamic analysis of a 6-DOF parallel robot. 2, pp. 1797 - 1803. 2001.**Position of signature:** 4**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 4**Source of citations:** SCOPUS**Citations:** 2**157** Saltaren, R; Aracil, R; Sabater, JM...[et al.]. Modelling, simulation, and conception of parallel climbing robots for construction and service. Proceedings Of The 2nd International Conference On Climbing And Walking Robots, Clawar 99. pp. 253 - 265. 1999.**Position of signature:** 1**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 5**Source of citations:** WOS**Corresponding author:** Yes**Citations:** 5**158** Aracil, R; Saltaren, R; Sabater, JM. TREPA, parallel climbing robot for maintenance of palm trees and large structures. Proceedings Of The 2nd International Conference On Climbing And Walking Robots, Clawar 99. pp. 453 - 461. 1999.**Position of signature:** 2**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 3**Source of citations:** WOS**Citations:** 12**159** Barrientos, A; Gambao, E; Saltaren, R...[et al.]. Hierarchical control architecture for large range robots with static deflection correction. Robot Control 1997, Vols 1 And 2. pp. 261 - 266. 1998.**Position of signature:** 3**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 5**160** Gambao, E; Balaguer, C; Barrientos, A...[et al.]. Robot assembly system for the construction process automation. Proceedings - IEEE International Conference On Robotics And Automation. 1, pp. 46 - 51. IEEE, 1997. ISSN 1050-4729**Position of signature:** 4**Degree of contribution:** Author or co-author of educational publication**Total no. authors:** 5**Source of citations:** SCOPUS**Citations:** 22



- 161** Simulating Underwater Human Motions on the Ground With a Cable-Driven Robotic Platform. IEEE TRANSACTIONS ON ROBOTICS.

R&D management and participation in scientific committees

R&D management

Name of the activity: Grupo de Robots y Máquinas Inteligentes
Type of management: Group management
Performed tasks: Coordinador
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Start date: 01/11/2016

Evaluation and revision of R&D projects and articles

- 1** **Name of the activity:** Evaluador de proyectos I+D+i Industriales
Performed tasks: Evaluador Experto
Entity where activity was carried out: EMPRION & TECH
City of entity: Madrid, Spain
Start date: 10/12/2018
- 2** **Performed tasks:** Revisor artículos científicos
Entity where activity was carried out: Published by MDPI AG, Basel, Switzerland
City of entity: Switzerland
Start date: 01/05/2018
- 3** **Name of the activity:** Revisor
Performed tasks: Revisor de artículos científicos sobre robótica y mecatrónica
Entity where activity was carried out: IEEE/ASME **Type of entity:** Foundation
Transactions on Mechatronics
City of entity: IEEE Corporate Office: 3 Park Avenue, 17th Floor, New York, NY 10016-5997., United States of America
Start date: 09/2016
- 4** **Name of the activity:** Experto técnico
Performed tasks: Evaluador de Proyectos I+D+i RD1 432/2003
Entity where activity was carried out: DNV GL **Type of entity:** Business
Business Assurance España, S.L.U
City of entity: Madrid, Spain
Start date: 03/2016

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Israel Institute of Technology, TECHNION **Type of entity:** University
Faculty, institute or centre: Mechanical Engineering Dept.
City of entity: Haifa, Israel
Start-End date: 22/01/2017 - 30/06/2017 **Duration:** 6 months
Goals of the stay: Post-doctoral
Provable tasks: Research in design and control of parallel Cable driven robots
- 2** **Entity:** Ben-Gurion University of the Negev **Type of entity:** University
Faculty, institute or centre: Mechanical Engineering Department, Robotics Lab.
City of entity: Beersheba, Israel
Start-End date: 20/02/2015 - 20/05/2015 **Duration:** 3 months
Goals of the stay: Post-doctoral
- 3** **Entity:** The Hebrew University of Jerusalem **Type of entity:** University
Faculty, institute or centre: CSMIP Lab: Computer-Aided Surgery and Medical Image Processing Laboratory
City of entity: Jerusalén, Israel
Start-End date: 12/01/2014 - 14/04/2014 **Duration:** 3 months
Goals of the stay: Post-doctoral

Obtained grants and scholarships

- 1** **Name of the grant:** Estancias de movilidad de profesores e investigadores seniores en centros extranjeros de enseñanza superior e investigación, incluido el Programa Salvador de Madariaga 2016
Aims: Post-doctoral
Awarding entity: Ministerio de Educación Cultura y Deporte **Type of entity:** State agency
Conferral date: 03/08/2016 **Duration:** 6 months
End date: 30/06/2017
Entity where activity was carried out: Israeli Institute of Technology, TECHNION
- 2** **Name of the grant:** Programa RAMON Y CAJAL
Aims: Post-doctoral
Awarding entity: Ministerio de Ciencia y Tecnología **Type of entity:** State agency
Conferral date: 01/01/2002 **Duration:** 3 years
End date: 11/2003
Entity where activity was carried out: Universidad Politécnica de Madrid
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales



Prizes, mentions and distinctions

- 1** **Description:** PREMIO A LA MEJOR COMUNICACIÓN CIENTÍFICA DE LAS XXIX JORNADAS Y PREMIO ABB
Awarding entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
City awarding entity: Tarragona, Spain
Conferral date: 08/2008
- 2** **Description:** Certificate of Appreciation, IEEE. For notable services and Contributions towards the advancement of IEEE and Engineering Professions. Roque Saltaren Pazmino, Chair Oceanic Engineering Chapter, Spain Section 2004-2007
Awarding entity: IEEE, Institute of Electrical and Electronics Engineers
City awarding entity: United States of America
Conferral date: 2007
- 3** **Description:** PREMIO A LA MEJOR COMUNICACIÓN CIENTÍFICA DE LAS XXVI JORNADAS
Awarding entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
City awarding entity: Alicante, Spain
Conferral date: 08/2005
- 4** **Description:** PREMIO A LA MEJOR COMUNICACIÓN CIENTÍFICA DE LAS XXV JORNADAS
Awarding entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
City awarding entity: Ciudad Real, Spain
Conferral date: 08/2004
- 5** **Description:** PREMIO A LA MEJOR COMUNICACIÓN CIENTÍFICA DE LAS XXII JORNADAS
Awarding entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC
City awarding entity: Barcelona, Spain
Conferral date: 08/2001

Periods of research activity

- 1** **Nº of recognized periods:** 3
Certifying entity: Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA) **Type of entity:** State agency
City certifying entity: Madrid, Others, Spain
Date of recognition: 01/01/2017
- 2** **Nº of recognized periods:** 3
Certifying entity: Dirección Provincial del Ministerio de Educación y Cultura **Type of entity:** Comisión Nacional Evaluadora de la Actividad Investigadora
City certifying entity: Madrid, Community of Madrid, Spain
Date of recognition: 31/12/2016
- 3** **Nº of recognized periods:** 2
Certifying entity: Dirección Provincial del Ministerio de Educación y Cultura **Type of entity:** Comisión Nacional Evaluadora de la Actividad Investigadora
City certifying entity: Madrid, Community of Madrid, Spain



Date of recognition: 31/12/2010

4 N° of recognized periods: 1

Certifying entity: Dirección Provincial del Ministerio de Educación y Cultura

Type of entity: Comisión Nacional Evaluadora de la Actividad Investigadora

City certifying entity: Madrid, Community of Madrid, Spain

Date of recognition: 31/12/2004

Obtained accreditations/recognitions

1 Description: Quinquenios

N° of recognized periods: 4

Date of reception: 01/01/2019

Date of recognition: 01/01/2019

2 Description: Sexenio de Transferencia

Accrediting entity: Comisión Nacional Evaluadora de la Actividad Investigadora (CNEAI)

City accrediting entity: Madrid, Community of Madrid, Spain

N° of recognized periods: 1

Date of reception: 01/01/2019

Date of recognition: 01/01/2019