

CURRICULUM VITAE SIMPLIFICADO

CARGOS DE GESTIÓN INTERNACIONAL

2014-Now	UJI representative member on “euRobotics AISBL”
2013-14 2018-Now	Vice-Chair of IEEE RAS (Robotics and Automation Society) Spanish Chapter
2008-12	Member of the Advisory Committee of the IEEE Systems Council (IEEE RAS Representative Member)
2008-12	Member of the Publications Board of the IEEE RAS (Robotics and Automation Society)
2004-08	Committee Member in the “Education & Training Key Area” within the European Robotics Research Network (EURON)
2001-10	Co chair of the Interest Group on “Manipulation and Grasping” within the European Robotics Research Network (EURON)

ORGANIZACIÓN DE EVENTOS CIENTÍFICOS INTERNACIONALES

IROS2018-Workshop

General Chair of the Workshop [Fr-WS19](#) (“New Horizons for Underwater Intervention Missions: from Current Technologies to Future Applications”) for the *2018 IEEE/RSJ International Conference on Intelligent Robots and Systems*, October 5, 2018, Madrid, Spain

2015 Summer School on Mobile Manipulators

General Chair of this Summer School, including ground, air and underwater contexts for mobile manipulators. Castellón, Spain, July 13-14, 2015

IFAC Workshop on Navigation, Guidance and Control of Underwater Vehicles (NGCUV’2015)

Organizer of the *Invited Session “Underwater Manipulation”*, in conjunction with *NGCUV’2015*, 28-30 April 2015, Girona, Spain

2014 IEEE-RAS International Conference on Humanoid Robots

Humanoids competition Chair, 18-20 November 2014, Madrid, Spain

ELMAR2010-SpecialSession

Organizer of the *Special Session SS1 “Increasing Autonomy in Underwater Intervention Systems”*, in conjunction with the *52nd International Symposium ELMAR-2010*, 15-17 September 2010, Zadar, Croatia

IURS2007

General Chair of the *7th International UJI Robotics Symposium on Assistive Robots*, September 24-28, 2007, Benicàssim, Castellón, Spain

IURS2006

Programme Co-Chair of the *6th International UJI Robotics Symposium on Humanoid Robots*, September 18-22, 2006, Benicàssim, Castellón, Spain

IROS2005-Workshop

Co-Organizer of the *Workshop on “Mobile Manipulators: Basic Techniques, New Trends & Applications”*, in conjunction with the *IEEE/RSJ International Conference on Intelligent Robots and Systems*, August 1, 2005, Edmonton, Alberta, Canada

ICMA2005-Tutorial

Organizer of the *Tutorial on “Towards Autonomous Manipulation Capabilities for Service Robots”*, in conjunction with the *IEEE International Conference on Mechatronics and Automation*, July 29, 2005, Niagara Falls, Ontario, Canada

IURS2004

General Chair of the *4th International UJI Robotics Symposium on Mobile*

Manipulators, September 13-17, 2004, Benicàssim, Castellón, Spain

IURS2003

Programme Co-Chair of the *3rd International UJI Robotics Symposium on Online and Internet Robots: Advanced Techniques for Telemanipulation*, September 15-19, 2003, Benicàssim, Castellón, Spain

IROS2002-Tutorial

Co-Organizer of the *Tutorial T1 (“Towards Intelligent Robotic Manipulation”) for the 2002 IEEE/RSJ International Conference on Intelligent Robots and Systems*, September 30, 2002, Lausanne, Switzerland

EURON-UJI-SummerSchool2002

Organizing Committee Member of the *2nd EURON Summer School of Benicàssim on Visual Servoing*, September 16-20, 2002, Benicàssim, Castellón, Spain

EURON-UJI-SummerSchool2001

General Chair of the *1st EURON Summer School of Benicàssim on Robotic and Biologically-Inspired Manipulation*, September 10-14, 2001, Benicàssim, Castellón, Spain

IEA-AIE'98

Organizing Committee Member of the *11th International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems*, June 1-4, 1998, Benicàssim, Castellón, Spain

COMITÉS DE PROGRAMA EN CONGRESOS INTERNACIONALES

EVENTO	EDICIÓN
ETFA (IEEE International Conference on Emerging Technologies and Factory Automation)	2019 (Zaragoza, Spain) 2018 (Torino, Italy) 2017 (Limassol, Cyprus) 2010 (Bilbao, Spain) 2009 (Palma de Mallorca, Spain)
SMC (IEEE International Conference on Systems, Man, and Cybernetics)	2018 (Miyazaki, Japan) 2017 (Banff, Canada) 2016 (Budapest, Hungary) 2014 (San Diego, CA, USA) 2013 (Manchester, UK)
OCEANS (MTS/IEEE Oceans)	2015 (Genova, Italy) 2011 (Santander, Spain)
NGCUV (IFAC Workshop on Navigation, Guidance and Control of Underwater Vehicles)	2015 (Girona, Spain)
SysCon (IEEE International Systems Conference)	2013 (Orlando, Florida, USA) 2012 (Vancouver, Canada) 2011 (Montreal, Canada) 2010 (San Diego, CA, USA) 2009 (Vancouver, Canada)
RSS (Robotics: Science and Systems)	2010 (Zaragoza, Spain)
ICCV (INT. CONF. ON COMPUT. VISION AND ROBOTICS)	2010 (Bhubaneswar, India)
IASTED-CI (International Conference on Computational Intelligence)	2009 (Maui, Hawaii, USA) 2005 (Calgary, Alberta, Canada)
IASTED-ASC (International Conference on Artificial Intelligence and Soft Computing)	2008 (Palma de Mallorca, Spain) 2007 (Palma de Mallorca, Spain) 2006 (Palma de Mallorca, Spain) 2005 (Benidorm, Spain) 2004 (Marbella, Spain)

IROS (IEEE/RSJ International Conference on Intelligent Robots and Systems)	2006 (Beijing, China) 2005(Edmonton, Alberta, Canada) 2004 (Senday, Japan) 2002 (Lausanne, Switzerland)
ICRA (IEEE International Conference on Robotics and Automation)	2005 (Barcelona, Spain)

PANELES EDITORIALES Y REVISOR DE REVISTAS JCR

2005	Guest Editor for the Special issue on "Pattern Recognition for Autonomous Manipulation in Robotic Systems" of <i>IEEE Transactions on Systems, Man, and Cybernetics Part C</i>
2005	Guest Editor for the Special issue on "Online and Internet Robots for Telemanipulation" of <i>Journal of Robotic Systems</i>
2005-2012	Associate Editor of <i>IEEE Transactions on Systems, Man, and Cybernetics Part C: Applications and Reviews</i>
2007	Guest Editor for the Special issue on "Mobile Manipulators" of <i>Robotica (Int Journal)</i> .
2008-2010	Associate Editor of <i>IEEE Robotics and Automation Magazine</i>

Reviewer of articles for other journals (only a selection): *IEEE Transactions on Systems, Man and Cybernetics, Part A*; *IEEE Transactions on Robotics and Automation*; *Pattern Analysis & Applications Journal*; *Robotics and Autonomous Systems*; *Intelligent Service Robots*; *IEEE Journal of Oceanic Engineering*; *Autonomous Robots*; *IEEE-ConsumerElectronicsMagazine*; *Sensors*; *Transactions on Haptics*; *IEEE Systems Journal*.

PROYECTOS FINANCIADOS (Selección últimos diez años)

EUROPEOS

Título del proyecto = MARINE ROBOTS AND DEXTEROUS MANIPULATION FOR ENABLING AUTONOMOUS UNDERWATER MULTIPURPOSE INTERVENTION MISSIONS - TRIDENT

Investigador principal = Pedro J Sanz (Coordinador TRIDENT) Cuantía UJI= 456.988€

Entidad financiadora = European Union FP7; Referencia del proyecto = FP7-ICT-248497

Duración = 2010 – 2013

Tipo de participación = IP

Título del proyecto = EMERGENCE OF COGNITIVE GRASPING THROUGH EMULATION, INTROSPECTION AND SURPRISE - GRASP

Investigador principal = Danica Kragic (KTH, Suecia)

Cuantía UJI= 680.621€

Entidad financiadora = European Union FP7; Referencia del proyecto = FP7-ICT-215821

Duración = 2008 – 2012 (48 meses)

Tipo de participación = Investigador

Título del proyecto = GROUP OF UNMANNED ASSISTANT ROBOTS DEPLOYED IN AGGREGATIVE NAVIGATION SUPPORTED BY SCENT DETECTION - GUARDIANS

Investigador principal = J. Penders (Sheffield Hallam University, Reino Unido)

Cuantía UJI= 266.382€
Entidad financiadora = European Union FP6; Referencia del proyecto = FP6-IST- 045269
Duración = 2006 – 2010 (38 meses)
Tipo de participación = Investigador

NACIONALES COORDINADOS (equipos de tres universidades UJI, UdG, UIB)

Título del proyecto = TWIN ROBOTS FOR COOPERATIVE UNDERWATER INTERVENTION MISSIONS – TWINBOT
Investigador principal = Pedro J Sanz (Coordinador TWINBOT)
Cuantía UJI= 137.940 €
Entidad financiadora = MINECO
Referencia del proyecto = DPI2017-86372-C3-1-R; Duración = 2018 – 2020 (36 meses)
Tipo de participación = IP

Título del proyecto = Multifunctional coopERative marine roBOTS for Intervention DomainS– MERBOTS
Investigador principal = Pedro J Sanz (Coordinador MERBOTS)
Cuantía UJI= 185.130 €
Entidad financiadora = MINECO
Referencia del proyecto = DPI2014-57746-C3-1-R; Duración = 2015 – 2017 (36 meses)
Tipo de participación = IP

Título del proyecto = Multisensory Based Underwater Intervention through Cooperative Marine Robots– TRITON
Investigador principal = Pedro J Sanz (Coordinador TRITON)
Cuantía UJI= 176.660 €
Entidad financiadora = MINISTERIO DE CIENCIA E INNOVACION
Referencia del proyecto = DPI2011-27977-C03-01; Duración = 2012 – 2014 (36 meses)
Tipo de participación = IP

Título del proyecto = Reconfigurable AUV for Intervention – RAUVI
Investigador principal = Pedro J Sanz (Coordinador RAUVI)
Cuantía UJI= 170.400 €
Entidad financiadora = MINISTERIO DE EDUCACIÓN Y CIENCIA
Referencia del proyecto = DPI2008-06548-C03-01; Duración = 2009 – 2011 (36 meses)
Tipo de participación = IP

AUTONÓMICOS GVA

Título del proyecto = CENTRO DE INVESTIGACIÓN EN ROBÓTICA Y TECNOLOGÍAS SUBACUÁTICAS - CIRTESU
Investigador principal = Pedro J Sanz (Coordinador CIRTESU)
CONSORCIO UJI (tres grupos de investigación) - CSIC (Instituto Torre de la Sal de acuicultura)
Cuantía UJI = 564.101,25 €
Entidad financiadora = GVA (Generalitat Valenciana)
Referencia del proyecto = IDIFEDER/2018/013; Duración = 2018 – 2020 (36 meses)

meses)

Tipo de participación = IP

Título del proyecto = ROBÓTICA MARINA DE INTERVENCIÓN: MANIPULACIÓN, LOCALIZACIÓN, COMUNICACIONES Y HRI

Investigador principal = Pedro J Sanz (Coordinador)

CONSORCIO UJI (IRS-Lab) y Universitat de Valencia

Cuantía = 195.410 €

Entidad financiadora = GVA (Generalitat Valenciana)

Referencia del proyecto = PROMETEO/2016/066; Duración = 2016 – 2019

(48 meses)

Tipo de participación = IP

DIRECCIÓN DE TESIS DOCTORALES

1. Marín R. “The UJI Online Robot: A Distributed Architecture for Pattern Recognition, Autonomous Grasping and Augmented Reality”. Univ. Jaume I, Spain, 2002. European doctorate.
2. Recatalá G. “Visual determination, tracking and execution of 2D grasps using a behavior-inspired approach”. Univ. Jaume I, Spain, 2003. European doctorate.
3. Morales A. “Learning to predict grasp reliability with a multifinger robot hand by using visual features”. Univ. Jaume I, Spain, 2004. European doctorate.
4. Prats M. “Robot Physical Interaction through the combination of Vision, Tactile and Force Feedback”. Univ. Jaume I, Spain, 2009. European doctorate. This PhD Thesis has been the recipient of the “G. Giralt PhD Award”, Sweden, April 2011, for the best PhD Thesis in Europe in the field of robotics. This award is given by the European Robotics Research Network – EURON.
5. Wirz R. “Interacción Hombre-Robot a través de Internet: Arquitecturas, Protocolos de Red y Aplicaciones”. (in Spanish) Univ. Jaume I, Spain, 2009.
6. Pérez J. “Visibility in underwater robotics: Benchmarking and single image dehazing”. Univ. Jaume I, Spain, 2017. European doctorate.
7. Peñalver A. “Framework for Autonomous Underwater Grasping of Unknown Objects”. Univ. Jaume I, Spain, 2018. European doctorate.
8. Fornas D. “Aplicación de la Visión Artificial a la Manipulación Robótica en el Contexto de la Intervención Subacuática”. (in Spanish) Univ. Jaume I, Spain, 2019.

DIFUSIÓN DE RESULTADOS DE INVESTIGACIÓN

PUBLICACIONES CIENTÍFICAS INDEXADAS (JCR)

[AR-1] DOI: <https://doi.org/10.3390/app9173526>

D. Centelles, Soriano-Asensi, A., Martí, J. V., Marín, R., and Sanz, P. J., “Underwater Wireless Communications for Cooperative Robotics with UWSim-NET”, Applied Sciences, vol. 9, no. 17, p. 3526, 2019.

Indicios de calidad:

- Factor de impacto (JCR-2018): **2.217**
- ‘Chemistry, Multidisciplinary’: 89/172 **Q3**
- ‘Materials Science, Multidisciplinary’: 151/293 **Q3**
- ‘Physics, Applied’ 67/148 **Q2**
- Citas: 0

[AR-2] DOI:10.3390/s19143220.

Veiga Almagro, C., Di Castro, M., Lunghi, G., Marín Prades, R., Sanz Valero, P. J., Pérez, M. F., & Masi, A. (2019). Monocular Robust Depth Estimation Vision System for Robotic Tasks Interventions in Metallic Targets. Sensors, 19(14), 3220.

Indicios de calidad:

- Factor de impacto (JCR-2018): **3.031**
- ‘Instruments & Instrumentation’: 15/61 **Q1**
- ‘Chemistry, Analytical’: 23/84 **Q2**
- ‘Electrochemistry’: 12/26 **Q2**
- Citas: 0

[AR-3] DOI: 10.1109/ACCESS.2019.2939493

G. Lunghi, R. Marin, M. Di Castro, A. Masi, and P. J. Sanz. Multimodal Human-Robot Interface for Accessible Remote Robotic Interventions in Hazardous Environments. IEEE Access 7; pp 127290 – 127319 Date of Publication: 04 September 2019, IEEE, 2019. ISSN: 2169-3536

Indicios de calidad:

- Factor de impacto (JCR-2017): **3,557**
- Telecomunicaciones: 19/87 **Q1**
- Computer Science, Information Systems: 24/148 **Q1**
- ENGINEERING, ELECTRICAL & ELECTRONIC: 48/260 **Q1**
- Citas: 0

[AR-4] DOI <https://doi.org/10.1007/s11554-018-0833-5>

Eduardo Rubino; Alberto Alvares; Raul Marin; Pedro J. Sanz. Real-Time Rate- Distortion Optimized Image Compression with Region of Interest on the ARM Architecture for Underwater Robotics Applications. Journal of Real-Time Image Processing 16(1); pp 193–225. Springer, 2019. ISSN 1861-8200

Indicios de calidad:

- Índice de impacto (JCR-2017): **1.574**
- Computer Science, A. Intelligence - SCIE: 70/132 **Q3**
- Citas: 0

[AR-5] DOI <https://doi.org/10.1016/j.image.2018.06.017>

Eduardo Rubino; Alberto Alvares; Pedro Sanz; Raul Marin. A General Scheme for Finding the Static Rate-Distortion Optimized Ordering for the Bits of the Coefficients for all Subbands of an N-Level Dyadic Biorthogonal DWT. Signal Processing: Image Communication. Elsevier, 2018. ISSN 0923-5965

Indicios de calidad:

-
- Índice de impacto (JCR-2017): **2.073**
 - Engineering, Electrical & Electronic – SCIE: 118/260 **Q2**
 - Citas: 1
-

[AR-6] DOI: <https://doi.org/10.4995/riai.2017.8953>

Eduardo Rubino; Diego Centelles; Jorge Sales; José V Martí; Raúl Marín; Alberto J Alvares; Pedro J Sanz. Sistema de Visión Subacuático Inalámbrico Usando un Algoritmo de Compresión Progresivo con Región de Interés. Revista Iberoamericana de Automática e Informática industrial. 15 - 1, pp. 46 – 57. Valencia (España): Universitat Politècnica de València, 2018. ISSN 1697-7912

Indicios de calidad:

- Índice de impacto (JCR-2017): **0.494**
 - Automation & Control Systems – SCIE: 60/61 **Q4**
 - Robotics – SCIE: 26/26 **Q4**
 - Citas: 0
-

[AR-7] DOI: 10.4995/riai.2017.8827

Javier Pérez; David Fornas; Raúl Marín; Pedro J Sanz. UWSim, un simulador submarino conectado a la nube como herramienta educativa. Revista Iberoamericana de Automática e Informática industrial. 15 - 1, pp. 70 - 78. Valencia (España): Universitat Politècnica de València, 2018. ISSN 1697-7912

Indicios de calidad:

- Índice de impacto (JCR-2017): **0.494**
 - Automation & Control Systems – SCIE: 60/61 **Q4**
 - Robotics – SCIE: 26/26 **Q4**
 - Citas: 1
-

[AR-8] DOI: <https://doi.org/10.1007/s40430-017-0894-6>

Eduardo M. Rubino, Diego Centelles, Jorge Sales, José V. Martí, Raúl Marín, Pedro J. Sanz, Alberto J. Álvarez. Underwater radio frequency image sensor using progressive image compression and region of interest. Journal of the Brazilian Society of Mechanical Sciences and Engineering 39(10); pp 4115–4134. Springer, 2017. ISSN 1678-5878

Indicios de calidad:

- Índice de impacto (JCR-2017): **1.627**
 - Engineering, Mechanical – SCIE: 288/950 **Q2**
 - Citas: 5
-

[AR-9] DOI: 10.1109/MCG.2015.118

JC Garcia; B Patrao; L Almeida; J Perez; P Menezes; J Dias; PJ Sanz. A Natural Interface for Remote Operation of Underwater Robots. IEEE Computer Graphics and Applications. 37(1), pp. 34 - 43. IEEE, 2017. ISSN: 0272-1716

Indicios de calidad:

- Índice de impacto (JCR-2017): **1.640**
 - Computer Science, Software Eng. – SCIE: 38/104 **Q2**
 - Citas: 20
-

[AR-10] DOI: 10.1080/0952813X.2015.1024495

D Fornas; J Sales; A Peñalver; J Pérez; JJ Fernández; R Marín; PJ Sanz. Fitting primitive shapes in point clouds: a practical approach to improve autonomous underwater grasp specification of unknown objects. Journal of Experimental & Theoretical Artificial Intelligence. 28 - 1-2, pp. 369-384. London (Reino Unido): Taylor & Francis, 2016. ISSN: 0952-813X

Indicios de calidad:

- Índice de impacto (JCR-2016): **1.384**
 - Computer Science, A. Intelligence – SCIE: 82/133 **Q3**
 - Citas: 5
-

[AR-11] DOI: <https://doi.org/10.1155/2016/4781280>

Jorge Sales, José V. Martí, Raúl Marín, Enric Cervera, and Pedro J. Sanz. CompaRob: The Shopping Cart Assistance Robot. International Journal of Distributed Sensor Networks, Volume 2016. ISSN: 1550-1477

Indicios de calidad:

- Índice de impacto (JCR-2016): **1.239**
- Computer Science, Inf. Systems – SCIE: 103/146 **Q3**
- Citas: 20

[AR-12] DOI: 10.3390/s16101673

N Palomeras; A Peñalver; M Massot-Campos; PL Negre; JJ Fernández; P Ridao; PJ Sanz; G Oliver-Codina. I-AUV Docking and Panel Intervention at Sea. Sensors. 16 - 10, Basel (Suiza): MDPI, 12/10/2016. ISSN: 1424-8220

Indicios de calidad:

- Índice de impacto (JCR-2016): **2.677**
- Instruments & Instrumentation – SCIE: 10/58 **Q1**
- Citas: 10

[AR-13] DOI: <http://dx.doi.org/10.1016/j.arcontrol.2015.09.012>

A. Peñalver, Pérez, J., Fernández, J. Javier, Sales, J., Sanz, P. J., García, J. Carlos, Fornas, D., and Marín, R., “Visually-guided manipulation techniques for robotic autonomous underwater panel interventions”, Annual Reviews in Control, vol. 40, Pages 201–211. Elsevier, 2015. ISSN: 1367-5788

Indicios de calidad:

- Índice de impacto (JCR-2015): **2.042**
- Automation & Control Systems – SCIE: 17/59 **Q2**
- Citas: 10

[AR-14] DOI: <https://doi.org/10.1016/j.arcontrol.2015.09.015>

P Ridao; M Carreras; D Ribas; PJ Sanz; G Oliver. Intervention AUVs: The next challenge. Annual Reviews in Control. Volume 40, Pages 227-241. Elsevier, 2015. ISSN: 1367-5788

Indicios de calidad:

- Índice de impacto (JCR-2015): **2.042**
- Automation & Control Systems – SCIE: 17/59 **Q2**
- Citas: 28

[AR-15] DOI: 10.1109/TMECH.2015.2395413

D. Ribas, Ridao, P., Turetta, A., Melchiorri, C., Palli, G., Fernández, J., and Sanz, P. J., “I-AUV Mechatronics Integration for the TRIDENT FP7 Project”, IEEE/ASME Transactions on Mechatronics, vol. PP, no. Issue: 99, pp. 1 – 10, 2015. ISSN: 1083-4435

Indicios de calidad:

- Índice de impacto (JCR-2015): **3.851**
- Automation & Control Systems – SCIE: 3/59 **Q1**
- Citas: 44

[AR-16] DOI: 10.1109/MRA.2015.2448971

Javier Perez; Jorge Sales; Antonio Peñalver; David Fornas; Jose Javier Fernandez; Juan Carlos Garcia; Pedro Jose Sanz; Raul Marin; Mario Prats. Exploring 3D Reconstruction Techniques: A Benchmarking Tool for Underwater Robotics. IEEE Robotics & Automation Magazine. 22 - 3, pp. 85 - 95. IEEE, 2015. ISSN: 1070-9932

Indicios de calidad:

- Índice de impacto (JCR-2015): **1.822**
- Automation & Control Systems – SCIE: 25/59 **Q2**
- Robotics- SCIE: 8/25 **Q2**
- Citas: 12

[AR-17] DOI: 10.1109/MRA.2015.2418511

E. Cervera, García, J. Carlos, and Sanz, P. J., "Toward the Robot Butler: The HUMABOT Challenge", IEEE Robotics & Automation Magazine, IEEE, vol. 22, Pages 8–17, 2015. ISSN: 1070-9932

Indicios de calidad:

- Índice de impacto (JCR-2015): **1.822**
 - Automation & Control Systems – SCIE: 25/59 **Q2**
 - Robotics- SCIE: 8/25 **Q2**
 - Citas: 8
-

[AR-18] DOI: 10.5772/55808

Jose Vicente Marti, Jorge Sales, Raul Marin and Pedro Sanz, "Multi-Sensor Localization and Navigation for Remote Manipulation in Smoky Areas", in International Journal of Advanced Robotic Systems Vol. 10, 211:2013. ISSN: 1729-8814

Indicios de calidad:

- Índice de impacto (JCR-2013): **0.497**
 - Robotics – SCIE: 18/21 **Q4**
 - Citas: 8
-

[AR-19] DOI: 10.1109/MRA.2013.2248307

José J Fernández, Mario Prats, Pedro J Sanz, Juan C García, Raul Marin, Mike Robinson, David Ribas, Pere Ridao, "Grasping for the Seabed: Developing a New Underwater Robot Arm for Shallow-Water Intervention", in IEEE Robotics & Automation Magazine, IEEE, vol. 20 (4), pp. 121 – 130, 2013. ISSN: 1070-9932

Indicios de calidad:

- Índice de impacto (JCR-2013): **2.319**
 - Automation & Control Systems – SCIE: 12/59 **Q1**
 - Robotics- SCIE: 4/21 **Q1**
 - Citas: 8
-

[AR-20] DOI: 10.1109/MAES.2010.5638803

G. De Novi, C. Melchiorri, J.C. García, P.J. Sanz, P. Ridao, G. Oliver, "A New Approach for a Reconfigurable Autonomous Underwater Vehicle for Intervention", in IEEE Aerospace and Electronic Systems Magazine, 25 (11), pp. 32-36, Nov.-2010. ISSN: 0855-8985

Indicios de calidad:

- Índice de impacto (JCR-2010): **0.179**
 - Engineering, Aerospace – SCIE: 25/28 **Q4**
 - Engineering, Electrical & Electronic - SCIE: 230/247 **Q4**
 - Citas: 33
-

[AR-21] DOI: <https://doi.org/10.1007/s10514-010-9192-1>

M. Prats, P.J. Sanz and A.P del Pobil. "Reliable non-prehensile door opening through the combination of vision, tactile and force feedback". Autonomous Robots, 29(2), pp. 201-218, 2010. ISSN: 15737-527

Indicios de calidad:

- Índice de impacto (JCR-2010): **2.033**
 - Computer Science, A. Intelligence – SCIE: 25/28 **Q2**
 - Robotics - SCIE: 5/17 **Q2**
 - Citas: 31
-

[AR-22] DOI: <https://doi.org/10.1007/s10514-009-9145-8>

M. Prats, P.J. Sanz and A.P del Pobil. "A framework for compliant physical interaction: the grasp meets the task". Autonomous Robots (special issue on autonomous mobile manipulation), 28(1), pp. 89-111, 2010. ISSN: 15737-527

Indicios de calidad:

- Índice de impacto (JCR-2010): **2.033**
 - Computer Science, A. Intelligence – SCIE: 25/28 **Q2**
 - Robotics - SCIE: 5/17 **Q2**
 - Citas: 21
-

[AR-23] DOI: 10.1109/TIE.2009.2013250

R. Marín, G. León, R. Wirz, J. Sales, J. M. Claver, P. J. Sanz, J. Fernández. "Remote Programming of Network Robots Within the UJI Industrial Robotics Telelaboratory: FPGA Vision and SNRP Network Protocol". IEEE Transactions on Industrial Electronics. Vol. 56, No. 12, pp. 4806-4816. 2009. ISSN: 0278-0046

Indicios de calidad:

- Índice de impacto (JCR-2009): **4.578**
- Automation & Control Systems – SCIE: 1/59 **Q1**
- Engineering, Electrical & Electronic - SCIE: 3/246 **Q1**
- Citas: 31

[AR-24] DOI: 10.1109/TSMCC.2008.2001579

Recatalá, Gabriel; Carloni, Raffaella; Melchiorri, Claudio; Sanz, Pedro J; Cervera, Enric; del Pobil, Ángel P. "Vision-Based Grasp Tracking for Planar Objects". IEEE Trans. on Systems, Man, and Cybernetics (Part C). Vol. 38, No. 6, pp. 844-849. 2008. ISSN: 1094-6977

Indicios de calidad:

- Índice de impacto (JCR-2008): **1.375**
- Computer Science, Cybernetics – SCIE: 7/17 **Q2**
- Computer Science, Interdiscip. Applic. - SCIE: 32/94 **Q2**
- Citas: 8

[AR-25] DOI: <https://doi.org/10.4995/riai>

M. Prats, P.J. Sanz, E. Martínez, R. Marín, A.P. del Pobil. Manipulación autónoma multipropósito en el robot de servicios Jaume-2. Revista iberoamericana de automática e informática industrial (RIAI), Vol. 5, pp. 25-37, 2008. ISSN: 1697-7912

Indicios de calidad:

- Índice de impacto (JCR-2009): **0.291**
- Automation & Control Systems – SCIE: 55/59 **Q4**
- Robotics - SCIE: 16/16 **Q4**
- Citas: 0

[AR-26] DOI: <https://doi.org/10.1017/S0263574706003304>

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- Citas: 21

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- Índice de impacto (JCR-2003): **1.110**
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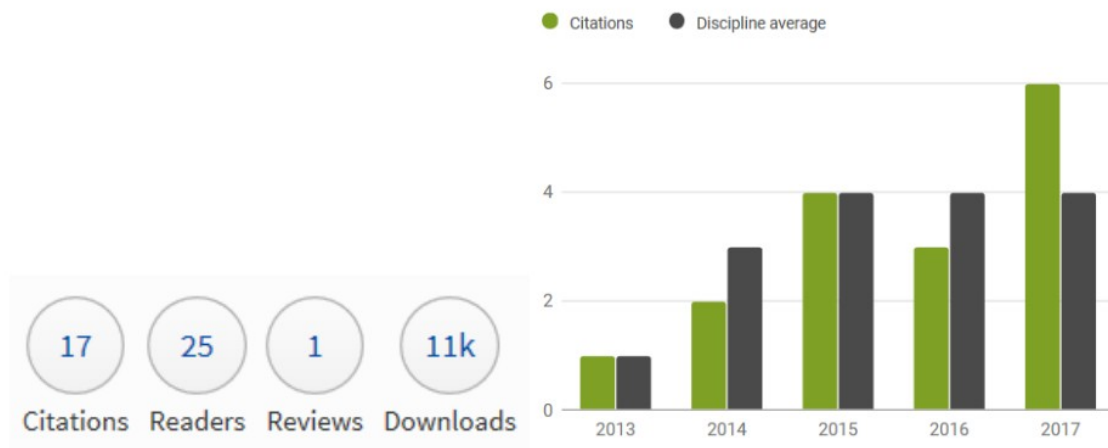
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3. C. Veiga, J.C. García, D. Fornas, R. Marín, P.J. Sanz, “Integración de una Cámara Pan-Tilt Subacuática para Detección de Objetos y Guiado de un ROV Submarino”, Actas de las XXXIX Jornadas de Automática, Badajoz, 5-7 de Septiembre de 2018, p. 416-421, ISBN 978-84-09-04460-3
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5. D. Centelles, E. M. Rubino, G. Vallicrosa, N. Palomeras, P. Ridaó, J. Sales, J. V. Martí, R. Marín, P. J. Sanz, “Control inalámbrico de un HROV con realimentación visual comprimida a través de un enlace acústico”, en Marine automation. Proceedings of the VII Workshop on Marine Automation/Systems. AUTOMAR 2017. UJI, Col·lecció: Treballs d'Informàtica i Tecnologia Núm.Serie: 45. ISBN: 978-84-16546-83-1.
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- 29.J. Sales, El-Habbal, M., Marín, R., Witkowski, U., Cervera, E., and Rückert, U., "TDoA indoor Localization within the EU GUARDIANS project", in II Workshop de Robótica (ROBOT'2009), Barcelona, Universitat Politècnica de Catalunya, 2009.
- 30.R. Wirz, Claver, J. M., Ferre, M., Marín, R., Sanz, P. J., Barrio, J., and Ortego, J., "Efficient Transport Protocol for Internet Remote Control of Devices", in XIX JORNADAS DE PARALELISMO, Castellón, Universitat Jaume I, 2008.

ESTANCIAS DE INVESTIGACIÓN

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- Centro: Technische Universität München (TUM, Munich, Alemania); Fecha: 1/06/2016; Duración (semanas): 12; Role: Prof. invitado.

- Centro: CIRS (Centro de Investigación en Robótica Submarina), Universitat de Girona (UdG, Girona, Spain); Fecha: 1/03/2011; Duración (semanas): 24; Role: Prof. invitado.
- Centro: LAR-DEIS (Laboratory of Automation and Robotics of D.E.I.S., Department of Electronics, Computer Science and Systems, University of Bologna, Italia); Fecha: 1/03/2008; Duración (semanas): 32; Role: Prof. invitado.
- Centro: Université Blaise Pascal (LASMEA) de Clermont-Ferrand (Aubiere, Francia); Fecha: 1/07/2002 Duración (semanas): 12; Role: Prof. Invitado.
- Centro: Technische Universität München (TUM, Munich, Alemania); Fecha: 1/08/2000; Duración (semanas): 12; Role: Prof. invitado.

CONFERENCIAS INVITADAS

TITULO: “The Robotic Intelligence Lab: Int. Cooperation & Open Research Lines”

Acto: Workshop, organizado por el “Institute of Automation IAT” de la Universität Bremen, (Prof. Dr. Ing. A.Gräser).

Lugar de presentación: Universität Bremen, Alemania; 2004 (July 13th)

TITULO: “Current Experiences on Robotics at the RobInLab”

Acto: Conferencia Inaugural del Congreso Nacional Portugués “ROBOTICA2005”, organizado por la Universidad de Coimbra, Portugal (Prof. Jorge Dias).

Lugar de presentación: Universidad de Coimbra, Portugal; 2005 (April 29th)

TITULO: “Towards Autonomous Robotic Manipulation: A Case Study”

Acto: Conferencia organizada por la Universidad Simon Fraser, Vancouver, Canadá (Prof. Kamal Gupta).

Lugar de presentación: Simon Fraser University, Canadá; 2009 (March 27th)

TITULO: “Recent Progress in Multisensory Guided Grasping and Manipulation Actions from a Knowledge Based Approach”

Acto: Conferencia organizada por la Heriot-Watt University, Edimburgo, UK (Prof. Y. Petillot).

Lugar de presentación: Heriot-Watt University, UK; 2009 (August 25th)

TITULO: “Recent Achievements in Underwater Intervention Systems: the Role of Perception & Robotic Manipulation” (Keynote Talk)

Acto: Austrian robotics workshop (ARW), Co-sponsored by Technical

University of Vienna, AIT Austrian Institute of Technology and UAS Technikum Wien, (Prof. M. Vincze).

Lugar de presentación: Palais Eschenbach, Vienna, Austria; 2017 (May 11th)

PREMIOS Y MENCIONES

- *Prize to the best "Application-Oriented Paper Award"*. IROS Workshop “New Horizons for Underwater Intervention Missions: from Current Technologies to Future Applications” hosted by the big conference “2018 IEEE/RSJ International Conference on Intelligent Robots and Systems”, Madrid 5th October 2018. Paper presented by Giacomo Lunghi, Raul Marin Prades, Mario Di Castro, Alessandro Masi, and Pedro J. Sanz, with the Title “Multimodal Human-Robot Interface for Supervision and Programming of Cooperative Behaviours of Robotics Agents in Hazardous Environments”
- *Premio Nacional "AUTOMAR Profesor Jesús Manuel de la Cruz"* (con el patrocinio de la empresa Kongsberg). Trabajo presentado por Diego Centelles, Antonio Soriano, Raúl Marín and Pedro J. Sanz, con el título “ARQUITECTURA PARA TELEOPERACIÓN INALÁMBRICA CON REALIMENTACIÓN VISUAL DE ROVs BASADOS EN ARDUSUB”. Jornadas Nacionales organizadas por el COMITÉ ESPAÑOL DE AUTOMÁTICA dependiente del IFAC (dentro del Grupo temático AUTOMAR). Badajoz (5-7 septiembre 2018).
- *European PhD Thesis Award* by Prats M. “Robot Physical Interaction through the combination of Vision, Tactile and Force Feedback”. Univ. Jaume I, Spain, 2009. European doctorate. This PhD Thesis has been the recipient of the “G. Giralt PhD Award”, Sweden, April 2011, for the best PhD Thesis in Europe in the field of robotics. This award is given by the European Robotics Research Network – EURON.
- La Tesis Doctoral del candidato obtuvo el *premio nacional a la mejor tesis en el área de 'electrónica e informática'* de la Fundación Artigas de la ETSII (Escuela Técnica Superior de Ingenieros Industriales) de la Universidad Politécnica de Madrid (UPM, Madrid, 1996).

GESTIÓN I+D (Revisor Proyectos)

- MICINN: Programa Nacional de Diseño y Producción Industrial (DPI). Miembro de las Comisiones Evaluadoras en el programa DPI en los años 2004, 2009, 2014, y 2018.
- Agencia Nacional de Evaluación y Prospectiva (ANEP). Distintas convocatorias (2006- y continúa)
- Revisor de proyectos para el *Research Council of Norway* durante 2017.