

SIMPLIFIED CURRICULUM VITAE

MANAGEMENT, INTERNATIONAL DUTIES

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)

ORGANIZING COMMITTEES

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

PROGRAM COMMITTEES

EVENT	EDITION
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)
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)

EDITORIAL BOARDS AND JOURNAL REVIEWER

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-Consumer Electronics Magazine*; *Sensors*; *Transactions on Haptics*; *IEEE Systems Journal*.

FUNDED PROJECTS (Selection last ten years)

EUROPEAN

Project name = MARINE ROBOTS AND DEXTEROUS MANIPULATION FOR ENABLING AUTONOMOUS UNDERWATER MULTIPURPOSE INTERVENTION MISSIONS - TRIDENT

Main researcher = Pedro J Sanz (Coordinator TRIDENT) UJI

amount= 456.988€

Financing entity = European Union FP7; Project reference = FP7- ICT-248497

Length = 2010 – 2013

Type of participation = IP

Project name = EMERGENCE OF COGNITIVE GRASPING THROUGH EMULATION, INTROSPECTION AND SURPRISE - GRASP

Main researcher = Danica Kragic (KTH, Suecia) UJI

amount= 680.621€

Financing entity = European Union FP7; Project reference = FP7- ICT-

215821

Length = 2008 – 2012 (48 months)

Type of participation = Researcher

Project name = GROUP OF UNMANNED ASSISTANT ROBOTS DEPLOYED IN AGGREGATIVE NAVIGATION SUPPORTED BY SCENT DETECTION - GUARDIANS

Main researcher = J. Penders (Sheffield Hallam University, Reino Unido) UJI amount= 266.382€

Financing entity = European Union FP6; Project reference = FP6- IST-045269

Length = 2006 – 2010 (38 months)

Type of participation = Researcher

NATIONAL COORDINATED (three universities teams UJI, UdG, UIB)

Project name = TWIN ROBOTS FOR COOPERATIVE UNDERWATER INTERVENTION MISSIONS – TWINBOT

Main researcher = Pedro J Sanz (Coordinador TWINBOT)

UJI amount= 137.940 €

Financing entity = MINECO

Project reference = DPI2017-86372-C3-1-R; Length = 2018 – 2020 (36 months)

Type of participation = IP

Project name = Multifunctional coopERative marine roBOTs for Intervention DomainS– MERBOTS

Main researcher = Pedro J Sanz (Coordinador MERBOTS)

UJI amount= 185.130 €

Financing entity = MINECO

Project reference = DPI2014-57746-C3-1-R; Length = 2015 – 2017 (36 months)

Type of participation = IP

Project name = Multisensory Based Underwater Intervention through Cooperative Marine Robots– TRITON

Main researcher = Pedro J Sanz (Coordinador TRITON) UJI

amount= 176.660 €

Financing entity = MINISTERIO DE CIENCIA E INNOVACION

Project reference = DPI2011-27977-Co3-01; Length = 2012 – 2014 (36 months)

Type of participation = IP

Project name = Reconfigurable AUV for Intervention – RAUVI

Main researcher = Pedro J Sanz (Coordinador RAUVI)

UJI amount= 170.400 €

Financing entity = MINISTERIO DE EDUCACIÓN Y CIENCIA

Referencia del proyecto = DPI2008-06548-Co3-01; Length = 2009 – 2011 (36 months)

Type of participation = IP

REGIONALS GVA

Project name = CENTRO DE INVESTIGACIÓN EN ROBÓTICA Y TECNOLOGÍAS SUBACUÁTICAS - CIRTESU
Main researcher = Pedro J Sanz (Coordinador CIRTESU)
CONSORCIO UJI (tres grupos de investigación) - CSIC (Instituto Torre de la Sal de acuicultura)
UJI amount = 564.101,25 €
Financing entity = GVA (Generalitat Valenciana)
Project reference = IDIFEDER/2018/013; Length = 2018 – 2020 (36 months)
Type of participation = IP

Project name = ROBÓTICA MARINA DE INTERVENCIÓN: MANIPULACIÓN, LOCALIZACIÓN, COMUNICACIONES Y HRI
Main researcher = Pedro J Sanz (Coordinador) CONSORCIO UJI (IRS-Lab) and Universitat de Valencia
Amount = 195.410 €
Financing entity = GVA (Generalitat Valenciana)
Project reference = PROMETEO/2016/066; Length = 2016 – 2019 (48 months)
Type of participation = IP

PhD THESIS ADVISER

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.

DISSEMINATION OF RESEARCH RESULTS

INTERNATIONAL JOURNALS (JCR Selected Publications)

[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.

Quality Indications:

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

Quality Indications:

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

Quality Indications:

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

Quality Indications:

- Impact index (JCR-2017): **1.574**
- Computer Science, A. Intelligence - SCIE: 70/132 **Q3**
- Citations: 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

Quality Indications:

- Impact index (JCR-2017): **2.073**
- Engineering, Electrical & Electronic – SCIE: 118/260 **Q2**
- Citations: 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

Quality Indications:

- Impact index (JCR-2017): **0.494**
- Automation & Control Systems – SCIE: 60/61 **Q4**
- Robotics – SCIE: 26/26 **Q4**
- Citations: 0

[AR-7] DOI: [10.4995/riai.2017.8827](https://doi.org/10.4995/riai.2017.8827)

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

Quality Indications:

- Impact index (JCR-2017): **0.494**
- Automation & Control Systems – SCIE: 60/61 **Q4**
- Robotics – SCIE: 26/26 **Q4**
- Citations: 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. Alvares. 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

Quality Indications:

- Impact index (JCR-2017): **1.627**
- Engineering, Mechanical – SCIE: 288/950 **Q2**
- Citations: 5

[AR-9] DOI: [10.1109/MCG.2015.118](https://doi.org/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

Quality Indications:

- Impact index (JCR-2017): **1.640**
- Computer Science, Software Eng. – SCIE: 38/104 **Q2**
- Citations: 20

[AR-10] DOI: [10.1080/0952813X.2015.1024495](https://doi.org/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

Quality Indications:

- Impact index (JCR-2016): **1.384**

-
- Computer Science, A. Intelligence – SCIE: 82/133 **Q3**
 - Citations: 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

Quality Indications:

- Impact index (JCR-2016): **1.239**
 - Computer Science, Inf. Systems – SCIE: 103/146 **Q3**
 - Citations: 20
-

[AR-12] DOI: [10.3390/s16101673](https://doi.org/10.3390/s16101673)

N Palomas; 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

Quality Indications:

- Impact index (JCR-2016): **2.677**
 - Instruments & Instrumentation – SCIE: 10/58 **Q1**
 - Citations: 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

Quality Indications:

- Impact index (JCR-2015): **2.042**
 - Automation & Control Systems – SCIE: 17/59 **Q2**
 - Citations: 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

Quality Indications:

- Impact index (JCR-2015): **2.042**
 - Automation & Control Systems – SCIE: 17/59 **Q2**
 - Citations: 28
-

[AR-15] DOI: [10.1109/TMECH.2015.2395413](https://doi.org/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

Quality Indications:

- Impact index (JCR-2015): **3.851**
 - Automation & Control Systems – SCIE: 3/59 **Q1**
 - Citations: 44
-

[AR-16] DOI: [10.1109/MRA.2015.2448971](https://doi.org/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

Quality Indications:

- Impact index (JCR-2015): **1.822**
 - Automation & Control Systems – SCIE: 25/59 **Q2**
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- Robotics- SCIE: 8/25 **Q2**
 - Citations: 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

Quality Indications:

- Impact index (JCR-2015): **1.822**
 - Automation & Control Systems – SCIE: 25/59 **Q2**
 - Robotics- SCIE: 8/25 **Q2**
 - Citations: 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

Quality Indications:

- Impact index (JCR-2013): **0.497**
 - Robotics – SCIE: 18/21 **Q4**
 - Citations: 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

Quality Indications:

- Impact index (JCR-2013): **2.319**
 - Automation & Control Systems – SCIE: 12/59 **Q1**
 - Robotics- SCIE: 4/21 **Q1**
 - Citations: 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

Quality Indications:

- Impact index (JCR-2010): **0.179**
 - Engineering, Aerospace – SCIE: 25/28 **Q4**
 - Engineering, Electrical & Electronic - SCIE: 230/247 **Q4**
 - Citations: 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

Quality Indications:

- Impact index (JCR-2010): **2.033**
 - Computer Science, A. Intelligence – SCIE: 25/28 **Q2**
 - Robotics - SCIE: 5/17 **Q2**
 - Citations: 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

Quality Indications:

- Impact index (JCR-2010): **2.033**
 - Computer Science, A. Intelligence – SCIE: 25/28 **Q2**
 - Robotics - SCIE: 5/17 **Q2**
 - Citations: 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

Quality Indications:

- Impact index (JCR-2009): **4.578**
 - Automation & Control Systems – SCIE: 1/59 **Q1**
 - Engineering, Electrical & Electronic - SCIE: 3/246 **Q1**
 - Citations: 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

Quality Indications:

- Impact index (JCR-2008): **1.375**
 - Computer Science, Cybernetics – SCIE: 7/17 **Q2**
 - Computer Science, Interdiscip. Applic. - SCIE: 32/94 **Q2**
 - Citations: 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

Quality Indications:

- Impact index (JCR-2009): **0.291**
 - Automation & Control Systems – SCIE: 55/59 **Q4**
 - Robotics - SCIE: 16/16 **Q4**
 - Citations: 0
-

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

Prats, M.; Sanz, P.J.; del Pobil, A.P.; Martínez, E.; Marín, R. “Towards Multipurpose Autonomous Manipulation with the UJI Service Robot”. Robotica, Cambridge Univ. Press, Vol 25, Part 2, pp. 245-256. 2007. ISSN: 0263-5747

Quality Indications:

- Impact index (JCR-2007): **0.410**
 - Robotics - SCIE: 11/13 **Q4**
 - Citations: 21
-

[AR-27] DOI: 10.1108/01439910610705608

Raul Wirz, Raul Marin, Pedro J. Sanz. “Remote Programming over Multiple Heterogeneous Robots: A Case Study on Distributed Multirobot Architecture”. Industrial Robot: An International Journal. Vol. 33 No. 6, pp. 431-442. 2006. ISSN: 0143-991X

Quality Indications:

- Impact index (JCR-2006): **0.278**
 - Robotics - SCIE: 11/12 **Q4**
 - Engineering, Industrial - SCIE: 26/32 **Q4**
 - Citations: 8
-

[AR-28] DOI: 10.1016/j.robot.2006.01.002

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Quality Indications:

- Impact index (JCR-2006): **0.832**
 - Robotics - SCIE: 4/12 **Q2**
 - Automation & Control Systems - SCIE: 23/51 **Q2**
 - Citations: 88
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[AR-29] DOI: 10.1109/MRA.2005.1511868

Sanz PJ, Requena A, Iñesta JM, del Pobil AP. "Grasping the not-so-obvious: Vision-Based Object Handling for Industrial Applications". IEEE Robotics and Automation Magazine. Vol 12, Issue 3, pp. 44-52. 2005. ISSN: 1070-9932

Quality Indications:

- Impact index (JCR-2005): **0.450**
 - Robotics - SCIE: 7/11 **Q3**
 - Automation & Control Systems - SCIE: 29/46 **Q3**
 - Citations: 43
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[AR-30] DOI: 10.1109/TIE.2005.858733

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Quality Indications:

- Impact index (JCR-2005): **0.536**
 - Engineering, Electrical & Electronic - SCIE: 127/208 **Q3**
 - Automation & Control Systems - SCIE: 26/46 **Q3**
 - Citations: 159
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[AR-31] DOI: 10.1109/TSMCC.2004.840055

P.J. Sanz, R. Marín, and J.S. Sánchez "Including Efficient Object Recognition Capabilities in Online Robots: From a Statistical to a Neural-Network Classifier". IEEE Trans. on Systems, Man, and Cybernetics (Part C). Vol. 35, No. 1, pp.87-96. 2005. ISSN: 1094-6977

Quality Indications:

- Impact index (JCR-2005): **0.706**
 - Computer Science, Cybernetics - SCIE: 7/18 **Q2**
 - Citations: 20
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[AR-32] DOI: <https://doi.org/10.1002/rob.20060>

R. Marín & P.J. Sanz "Grasping Determination Experiments within the UJI Robotics Telelab". Journal of Robotic Systems 22 (4), pp. 203-216. 2005. ISSN: 0741-2223

Quality Indications:

- Impact index (JCR-2005): **0.317**
 - Robotics - SCIE: 9/11 **Q4**
 - Citations: 10
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[AR-33] DOI: 10.1002/rob.20060

R. Marín, P.J. Sanz, A.P. del Pobil. "The UJI Online Robot: An Education and Training Experience". Journal of Autonomous Robots, Special Issue "Internet and On-Line Robots". No. 15, pp. 283-297. 2003. ISSN: 0929-5593

Quality Indications:

- Impact index (JCR-2003): **1.110**
 - Robotics - SCIE: 3/11 **Q2**
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- Computer Science, A. Intelligence – SCIE: 30/77 **Q2**
 - Citations: 50
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[AR-34] DOI: <https://doi.org/10.1023/A:1008381314159>
Sanz, P.J., Iñesta, J.M., del Pobil, A.P. "Planar Grasping Characterization Based on Curvature-Symmetry Fusion", Applied Intelligence, Vol. 10, pp. 25-36. 1999. ISSN: 0924-669X

Quality Indications:

- Impact index (JCR-1999): **0.291**
 - Computer Science, A. Intelligence – SCIE: 47/63 **Q3**
 - Citations: 19
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[AR-35] DOI: [https://doi.org/10.1016/S0141-9382\(96\)01033-5](https://doi.org/10.1016/S0141-9382(96)01033-5)
R. Marín, P.J. Sanz, O. Coltell, J.M. Iñesta, F. Barber, and D. Corella. "Student Teacher Communication Directed to Computer based Learning Environments", Displays (Elsevier Science, Vol. 17, pp. 167-178. 1997. ISSN: 0141-9382

Quality Indications:

- Impact index (JCR-1997): **0.200**
 - Comp. Sc., Hardw. & Architecture – SCIE: 25/43 **Q3**
 - Eng., Electrical & Electronic – SCIE: 136/193 **Q3**
 - Citations: 14
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INDEXED SCIENTIFIC PUBLICATIONS (SCR)

[AR-36] DOI: [10.1007/s11370-011-0101-z](https://doi.org/10.1007/s11370-011-0101-z)
M Prats, D Ribas, N Palomeras, J C García, V Nannen, S Wirth, J J Fernández, J P Beltrán, R Campos, P Ridao, P J Sanz, G Oliver, M Carreras, N Gracias, R Marín, A Ortiz. Reconfigurable AUV for intervention missions: a case study on underwater object recovery. Intelligent Service Robotics, vol 5 (1), pp. 19-31, 2012. ISSN: 1861-2776

Quality Indications:

- Impact index (SJR 2012): **0.658**
 - Citations: 74
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[AR-37] DOI:
Juan C. García, Mario Prats, Raúl Marín and Pedro J. Sanz. "USER INTERFACE ORIENTED TO THE SPECIFICATION OF UNDERWATER ROBOTIC INTERVENTIONS". Journal of Maritime Research, vol VIII (2), pp. 49-62, 2011.

Quality Indications:

- Impact index (SJR 2011): **0.202**
 - Citations: 1
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[AR-38] DOI: <https://doi.org/10.1007/s11370-008-0028-1>
R Mario Prats, Ester Martínez, Pedro J. Sanz, Angel P. del Pobil. The UJI librarian robot. Intelligent Service Robotics, Vol. 1, pp. 321-335, 2008. ISSN: 1861-2776

Quality Indications:

- Impact index (SJR 2009): **0.275**
 - Citations: 18
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[AR-39] DOI:
R. Marín, P.J. Sanz, A.P. del Pobil. "Teleoperated Robot System Via Web: The UJI Telerobotic Training System". International Journal of Robotics and Automation, Special Issue on Web-based Robotics and Automation. Volume 17/Number 3/2002, paper 105, ACTA Press, 2002. ISSN: 0826-8185

Quality Indications:

- Impact index (SJR 2002): **0.165**
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- Citations: 5

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[AR-40] DOI:

Raul WIRZ, Raul MARIN, Joseph FERNANDEZ, Pedro J. SANZ. Remote Programming of Multirobot Systems within the UPC-UJI Telelaboratories: System Architecture and Agent-Based Multirobot Control. INT. JOURNAL OF INTELLIGENT CONTROL AND SYSTEMS, Vol. 13, pp. 120-127, 2008

Quality Indications:

- It appears in Emerging Sources Citation Index
- Citations: 6

[AR-41] DOI:

P.J. Sanz, J. Domingo, A.P. Del Pobil, J. Pelechano. An Integrated Approach to Position a Robot Arm in a System for Planar Part Grasping. Advanced Manufacturing Forum, Vol. 1, pp. 137-148, 1996

Quality Indications:

- Citations: 5

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[Lib-1] DOI: <http://dx.doi.org/10.1007/978-3-642-33241-8>

Mario Prats, Ángel P. del Pobil, Pedro J. Sanz. Robot Physical Interaction through the combination of Vision, Tactile and Force Feedback. Springer Tracts in Advanced Robotics, Volume 84 2013. ISBN: 978-3-642-33240-1 (Print) 978-3-642-33241-8 (Online). Series Print ISSN 1610-7438. Series Online ISSN 1610-742X

Quality Indications:

- Springer Bookmetrix <http://www.bookmetrix.com/detail/book/11cf79d6-c74d-4214-997d-e21607e5025d#downloads>



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1. Mobile Manipulators: Terrestrial, Marine and Aerial Domains. Proceedings of the International Summer School, Castellón, Spain, July 13-14, 2015. Pedro J Sanz, Raúl Marín, Jorge Sales, Markus Vincze (Eds.), Jaume I Publishing. ISBN 978-84-16356-54-6, Spain. 2016.
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3. RECENT PROGRESS IN ASSISTIVE ROBOTS". Ed by Sanz PJ, Recatala G & Balaguer, C. University of Jaume I Publishing. ISBN 978-84-8021-669-2, Spain. 2008.
4. HUMANOID ROBOTS". Ed by Angel P. del Pobil, Antonio Morales & Pedro J. Sanz. University of Jaume I Publishing. ISBN 978-84-8021-667-8, Spain. 2008.
5. "MOBILE MANIPULATORS: BASIC TECHNIQUES, NEW TRENDS & APPLICATIONS". Ed by Sanz PJ, Marin R & Vincze M. University of Jaume I Publishing. ISBN 84-8021-560-7, Spain. 2006.
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405-421, ISBN 978-3-540-71363-0. 2007.

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7. Raül Marín, Pedro J Sanz, Antonio J Jimeno, Jose M Iñesta. "Design of a Telerobotic Interface System by using Object Recognition Techniques". Advances in Pattern Recognition. FJ Ferri, JM Iñesta, A Amin, P Pudil. Lecture Notes in Computer Science 1876, Springer-Verlag, pp. 832-841. ISBN 3-540-67946-4. 2000.
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T. Tanaka, S. Ohsuga and M. Ali Eds. Gordon & Breach Science Publishers. Pp. 767-772. ISBN 2-8844-9198-8. 1996

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2. Peñalver, A., Fernández, J. J., Soriano, A., and Sanz, P. J., "A Multi-Task Priority Framework for Redundant Robots with Multiple Kinematic Chains under Hard Joint and Cartesian Constraints," 2018 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Madrid, 2018, pp. 2410-2417
3. Centelles, D., Soriano, A., Marin, R., Martí, J.V., Claver, J.M., and Sanz, P.J. "Wireless teleoperation with visual feedback for ArduSub based underwater ROVs". IROS 2018 Workshop "New Horizons for Underwater Intervention Missions: from Current Technologies to Future Applications", Madrid, 5th October 2018. Available at <http://irosworkshop.marinerobotics.eu/wp-content/uploads/2018/10/Fr-WS19-01.pdf>
4. Lunghi, G., Marin, R., Di Castro, M., Massi, A., Sanz, P.J. "Multimodal Human-Robot Interface for Supervision and Programming of Cooperative Behaviours of Robotics Agents in Hazardous Environments: Validation in Radioactive and Underwater Scenarios for Objects Transport.". IROS 2018 Workshop "New Horizons for Underwater Intervention Missions: from Current Technologies to Future Applications", Madrid, 5th October 2018. Available at <http://irosworkshop.marinerobotics.eu/wp-content/uploads/2018/10/Fr-WS19-02.pdf>
5. Centelles, D., Rubino, E., Vallicrosa, G., Palomeras, N., Sales, J., Martí, J. V., Marín, R., Ridao, P., and Sanz, P. J., "Wireless HROV control with compressed visual feedback over an acoustic link", in OCEANS 2017 - Aberdeen, Aberdeen (UK), 2017
6. Rubino, E., Centelles, D., Sales, J., Martí, J. V., Marín, R., Sanz, P. J., and Alvares, A. J., "Progressive image compression and transmission with region of interest in underwater robotics", in OCEANS 2017 - Aberdeen, Aberdeen (UK), 2017
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8. Pérez, J., Sanz, P. J., Bryson, M., and Williams, S. B., "A benchmarking study on single image dehazing techniques for underwater autonomous

- vehicles”, in OCEANS 2017 - Aberdeen, Aberdeen (UK), 2017
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NATIONAL PUBLICATIONS (Selection since 2011)

1. "Marine automation. Proceedings of the VII Workshop on Marine Automation/Systems. AUTOMAR 2017". P J Sanz, R Marín, J A Somolinos, A Soriano, y D Fornas (eds.) UJI, Col·lecció: Treballs d'Informàtica i Tecnologia Núm.Serie: 45. ISBN: 978-84-16546-83-1. Accesible en: <http://www.tenda.uji.es/pls/www/!GCPPAoo.GCPPR0002?lg=CA&isbn=978-84-16546-83-1>
2. Pedro J. Sanz, Pere Ridao, Gabriel Oliver. Vehículos autónomos bajo el agua. Investigación y Ciencia (Revista española de Scientific American). Prensa Científica SA, julio 2012, pp. 58-63. ISSN 0210136X.
3. Carlos Balaguer, Antonio Barrientos, Pedro J Sanz et al. Libro Blanco de la Robótica. 1ª Ed. CEA-GtRob, 2007. ISBN 978-84-690-3884-0. 2ª Ed. CEA-GtRob, 2011. ISBN 978-84-615-4583-4

NATIONAL CONGRESS AND WORKSHOPS (Last ten years)

1. D. Fornas, J.J. Fernández, A. Soriano, D. Centelles, P.J. Sanz, "Avances en manipulación robótica submarina mediante segmentación y seguimiento visual", Proceedings of the XXXIX Jornadas de Automática, Badajoz, 5-7 de Septiembre de 2018, p. 401-407, ISBN 978-84-09-04460-3
2. D. Centelles, A. Soriano, R. Marín, P.J. Sanz, "Arquitectura para Teleoperación Inalámbrica con Realimentación Visual de ROVS basados

- en ArduSub”, Proceedings of the XXXIX Jornadas de Automática, Badajoz, 5-7 de Septiembre de 2018, p. 408-415, ISBN 978-84-09-04460-3
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”, Proceedings of the XXXIX Jornadas de Automática, Badajoz, 5-7 de Septiembre de 2018, p. 416-421, ISBN 978-84-09-04460-3
 4. Sanz, P. J., Marín, R., Peñalver, A., Fornas, D., and Centelles, D., “MERBOTS Project: overall description, multisensory Autonomous perception and grasping for underwater robotics interventions”, in XXXVIII Jornadas de Automática, Gijón (España), 2017
 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.
 6. D.Fornas, A. Peñalver, J. J. Fernández, P. J. Sanz, “Reconstrucción láser multivista y especificación del agarre supervisada para la manipulación”, 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.
 7. J.C. García, J Pérez, P. Menezes, P. J. Sanz, “Improving the usability of a HROV: from the user point of view”, 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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 11. Fornas D., Sanz P. J., Porta J. M. & Thomas F. Improving Local Symmetry Estimations In RGB-D Images by Fitting Superquadrics, in XXXVII Jornadas de Automática, Madrid (España), 2016.
 12. Peñalver A. & Sanz P.J., MERBOTS: New approach for semi-

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16. D. Fornas, Sales, J., Peñalver, A., Pérez, J., Fernández, J. J., and Sanz, P. J., "Improving autonomous underwater grasp specification using primitive shape fitting in point clouds", in Seventeenth International Conference of the Catalan Association of Artificial Intelligence (CCIA 2014), Barcelona (Spain), 2014.
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18. E. Moscoso, Marín, R., Sales, J., and Sanz, P. J., "Survey on Progressive Image Compression and Transmission and its application in Underwater Intervention Missions", in XXXV Jornadas de Automática 2014.
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20. J. Perez, Sales, J., Marín, R., Cervera, E., and Sanz, P. J., "Configuración y ejecución de benchmarks de intervención robótica submarina en UWSim mediante herramientas Web", in XXXV Jornadas de Automática 2014.
21. P. J. Sanz, J. J. Fernández, J. Pérez, A. Peñalver, J. C. García, D. Fornas, J. Sales, J. Bernabé, R. Marín, "GRASPER: Un Proyecto Dirigido a Incrementar la Autonomía de la Manipulación Submarina", XXXIV Jornadas de Automática, Terrassa, Barcelona, 4-6 Septiembre 2013, pp.: 16-23, ISBN: 978-84-616-5063-7.
22. A. Peñalver, M. Prats, J. J. Fernández, J. Sales, "Semi-autonomous grasping approach of unknown objects in underwater environments combining structured light and a virtual simulation environment", Fifth

International Workshop on Marine Technology (MARTECH'13), Girona, Spain, 9-11 October 2013, pp.: 89-91, ISBN: 978-84-616-5764-3, Conference Link: <http://martech-workshop.org>.

23. D. Fornas, A. Peñalver, M. Prats, J. J. Fernández, J. Sales, "Primitive shape fitting in point clouds for enabling autonomous underwater grasping", Fifth International Workshop on Marine Technology (MARTECH'13), Girona, Spain, 9-11 October 2013, pp.: 85-88, ISBN: 978-84-616-5764-3, Conference Link: <http://martech-workshop.org>.
24. A. Peñalver, M. Prats, J. J. Fernández, R. Marín, P. J. Sanz, "Puesta a punto de sensores táctiles y adaptación a una mano robótica sumergible", in XXXIII Jornadas de Automática (CEA), Vigo (Spain), 2012, ISBN: 978-84-8158-583-4
25. J. J. Fernández, García, J. C., Prats, M., Sanz, P. J., Ribas, D., Ridaó, P., Wirth, S., and Oliver, G., "Proyecto RAUVI: Historia y Resultados", in XXXIII Jornadas de Automática (CEA), Vigo (Spain), 2012, ISBN: 978-84-8158-583-4.
26. J. C. García, Fernández, J. J., Prats, M., Marín, R., and Sanz, P. J., "Avances en la especificación y ejecución de tareas autónomas de manipulación submarina", in XXXII Jornadas de Automática (CEA), Sevilla (Spain), 2011.
27. J. C. García, Sanz, P. J., and Cervera, E., "Using Humanoids for Teaching Robotics and Artificial Intelligence Issues. The UJI Case Study", in III Workshop de robótica: robótica experimental, Sevilla (Spain), 2011.
28. J. C. García, Prats, M., Sanz, P. J., and Marín, R., "Incrementando el nivel de Autonomía en los Sistemas Robóticos de Intervención Submarina: punto de vista de la Interfaz de Usuario", in XXXI Jornadas de Automática (CEA), Jaén (Spain), 2010.
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.

RESEARCH STAYS

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- Center: Technische Universität München (TUM, Munich, Germany); Date: 1/06/2016; Length (weeks): 12; Role: Invited Prof.
- Center: CIRS (Centro de Investigación en Robótica Submarina), Universitat de Girona (UdG, Girona, Spain); Date: 1/03/2011; Length (weeks): 24; Role: Invited Prof.
- Center: LAR-DEIS (Laboratory of Automation and Robotics of D.E.I.S., Department of Electronics, Computer Science and Systems, University of Bologna, Italia); Date: 1/03/2008; Length (weeks): 32; Role: Invited Prof.
- Center: Université Blaise Pascal (LASMEA) de Clermont-Ferrand (Aubiere, France); Date: 1/07/2002 Length (weeks): 12; Role: Invited Prof.
- Center: Technische Universität München (TUM, Munich, Germany); Date: 1/08/2000; Length (weeks): 12; Role: Invited Prof.

INVITED CONFERENCES

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

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

Place: Universität Bremen, Germany; 2004 (July 13th)

TITLE: “Current Experiences on Robotics at the RobInLab”

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

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

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

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

Place: Simon Fraser University, Canada; 2009 (March 27th)

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

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

Place: Heriot-Watt University, UK; 2009 (August 25th)

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

Event: Austrian robotics workshop (ARW), Co-sponsored by Technical University of Vienna, AIT Austrian Institute of Technology and UAS Technikum Wien, (Prof. M. Vincze).

Place: Palais Eschenbach, Vienna, Austria; 2017 (May 11th)

AWARDS AND MENTIONS

- 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”

- National Prize "AUTOMAR Profesor Jesús Manuel de la Cruz" (Kongsberg company). For the work by Diego Centelles, Antonio Soriano, Raúl Marín and Pedro J. Sanz, with the title “ARQUITECTURA PARA TELEOPERACIÓN INALÁMBRICA CON REALIMENTACIÓN VISUAL DE ROVs BASADOS EN ARDUSUB”. Jornadas Nacionales organizadas por el COMITÉ ESPAÑOL DE AUTOMÁTICA dependiente del IFAC (inside the thematic Group 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.
- The candidate's Doctoral Thesis won the national award for the best thesis in the area of 'electronics and computer science' of the Fundación Artigas, ETSII (Escuela Técnica Superior de Ingenieros Industriales) from Universidad Politécnica de Madrid (UPM, Madrid, 1996).

R&D MANAGEMENT (Project Reviewer)

- MICINN: Programa Nacional de Diseño y Producción Industrial (DPI). Member of the Evaluation Commissions in the program DPI in the years 2004, 2009, 2014, and 2018.
- Agencia Nacional de Evaluación y Prospectiva (ANEP). Different calls (2006- until now).
- Project reviewer in Research Council of Norway during 2017.