# Juan G. Victores

## Journal Articles (29)

1. Johnny J. Yepez-Figueroa, Juan G. Victores, Edwin Daniel Oña, Carlos Balaguer, and Alberto Jardón. Design and development of an omnidirectional three-wheeled industrial mobile robot platform. *Applied Sciences*, 15, 2025. ISSN 2076-3417. doi: 10.3390/app15105277. URL https://doi.org/10.3390/app15105277 [robot] [design] (Q1)

2. Ana Calzada-Garcia, Juan G. Victores, Francisco J. Naranjo-Campos, and Carlos Balaguer. A review on inverse kinematics, control and planning for robotic manipulators with and without obstacles via deep neural networks. *Algorithms*, 18, 1 2025. ISSN 1999-4893. doi: 10.3390/a18010023. URL https://doi.org/10.3390/a18010023 [robot] [assistive] (Q2)

3. Francisco J. Naranjo-Campos, Juan G. Victores, and Carlos Balaguer. Expert-trajectory-based features for apprenticeship learning via inverse reinforcement learning for robotic manipulation. *Applied Sciences*, 14, 11 2024a. ISSN 2076-3417. doi: 10.3390/app142311131. URL https://doi.org/10.3390/app142311131 [robot] [assistive] (Q1)

4. Francisco J. Naranjo-Campos, Juan G. Victores, and Carlos Balaguer. Method for bottle opening with a dual-arm robot. *Biomimetics*, 9, 9 2024b. ISSN 2313-7673. doi: 10.3390/biomimetics9090577. URL https://doi.org/10.3390/biomimetics9090577 [robot] [assistive] (Q2)

5. Francisco J. Naranjo-Campos, Ainhoa De Matías-Martínez, Juan G. Victores, José A. Gutiérrez Dueñas, Almudena Alcaide, and Carlos Balaguer. Assistance in picking up and delivering objects for individuals with reduced mobility using the tiago robot. *Applied Sciences*, 14, 8 2024c. ISSN 2076-3417. doi: 10.3390/app14177536. URL https://doi.org/10.3390/app14177536 [robot] [assistive] (Q1)

6. Stephen Fox and Juan G. Victores. Safety of human–artificial intelligence systems: Applying safety science to analyze loopholes in interactions between human organizations, artificial intelligence, and individual people. *Informatics*, 11:36, 2024. doi: 10.3390/informatics11020036. URL https://doi.org/10.3390/informatics11020036 [aml] (Q2)

7. Rubén de-la Torre, Edwin Daniel Oña, Juan G. Victores, and Alberto Jardón. Spasticsim: a synthetic data generation method for upper limb spasticity modelling in neurorehabilitation. *Scientific Reports*, 14:1646, 1 2024. ISSN 2045-2322. doi: 10.1038/s41598-024-51993-w. URL https://doi.org/10.1038/s41598-024-51993-w [robot] [rehabilitation] (Q2)

8. Raul Fernandez-Fernandez, Bartek Łukawski, Juan G. Victores, and Claudio Pacchierotti. Transferring human emotions to robot motions using neural policy style transfer. *Cognitive Systems Research*, 82:101121, 12 2023a. ISSN 1389-0417. doi: 10.1016/J.COGSYS.2023.05.010. URL https://doi.org/10.1016/J.COGSYS.2023.05.010 [robot] [xgnitive: cgda] (Q2)

9. Raul Fernandez-Fernandez, Juan G. Victores, and Carlos Balaguer. Deep robot sketching: An application of deep q-learning networks for human-like sketching. *Cognitive Systems Research*, 81:57–63, 9 2023b. ISSN 1389-0417. doi: 10.1016/J.COGSYS.2023.05.004. URL https://doi.org/10.1016/J.COGSYS.2023.05.004 [robot] [xgnitive: cgda] (Q2)

10. Raul Fernandez-Fernandez, Juan G. Victores, Jennifer J. Gago, David Estevez, and Carlos Balaguer. Neural policy style transfer. *Cognitive Systems Research*, 72:23–32, 3 2022a. ISSN 1389-0417. doi: 10.1016/j.cogsys.2021.11.003. URL https://doi.org/10.1016/j.cogsys.2021.11.003 [robot] [xgnitive: cgda] (Q2)

11. Andrea Gil Ruiz, Juan G. Victores, Bartek Łukawski, and Carlos Balaguer. Design of an active vision system for high-level isolation units through q-learning. *Applied Sciences*, 10:5927, 8 2020. ISSN 2076-3417. doi: 10.3390/app10175927. URL https://doi.org/10.3390/app10175927 [robot] [textiles: horus] (Q2)

12. David Estevez, Juan G. Victores, Raul Fernandez-Fernandez, and Carlos Balaguer. Enabling garment-agnostic laundry tasks for a robot household companion. *Robotics and Autonomous Systems*, 123: 103330, 1 2020. ISSN 0921-8890. doi: 10.1016/j.robot.2019.103330. URL https://doi.org/10.1016/j.robot.2019.103330 [robot] [textiles: folding] [textiles: ironing] (Q2)

13. Alice Stazio, Juan G. Victores, David Estevez, and Carlos Balaguer. A study on machine vision techniques for the inspection of health personnels' protective suits for the treatment of patients in extreme isolation. *Electronics*, 8:743, 6 2019. doi: 10.3390/electronics8070743. URL https://doi.org/10.3390/electronics8070743 [robot] [textiles: horus] (Q2)

14. Jennifer J. Gago, Juan G. Victores, and Carlos Balaguer. Sign language representation by teo humanoid robot: End-user interest, comprehension and satisfaction. *Electronics*, 8:57, 1 2019a. ISSN 2079-9292. doi: 10.3390/electronics8010057. URL https://doi.org/10.3390/electronics8010057 [robot] [sign-language] (Q2)

15. Raul Fernandez-Fernandez, Juan G. Victores, David Estevez, and Carlos Balaguer. Real evaluations tractability using continuous goal-directed actions in smart city applications. *Sensors*, 18:3818, 11 2018a. ISSN 1424-8220. doi: 10.3390/s18113818. URL https://doi.org/10.3390/s18113818 [robot] [xgnitive: cgda] (Q1)

16. Santiago Martinez, Juan Miguel Garcia-Haro, Juan G. Victores, Alberto Jardon, and Carlos Balaguer. Experimental robot model adjustments based on force-torque sensor information. *Sensors*, 18:836, 3 2018. ISSN 14248220. doi: 10.3390/s18030836. URL https://doi.org/10.3390/s18030836 [robot] [humanoid] (Q1)

17. Elisabeth Menendez, Juan G. Victores, Roberto Montero, Santiago Martínez, and Carlos Balaguer. Tunnel structural inspection and assessment using an autonomous robotic system. *Automation in Construction*, 87:117–126, 3 2018. ISSN 09265805. doi: 10.1016/j.autcon.2017.12.001. URL https://doi.org/10.1016/j.autcon.2017.12.001 [robot] [construction] (Q1)

18. Eugenio Marinetto, Juan G. Victores, Mónica García-Sevilla, Mercedes Muñoz, Felipe Ángel Calvo, Carlos Balaguer, Manuel Desco, and Javier Pascau. Technical note: Mobile accelerator guidance using an optical tracker during docking in ioert procedures. *Medical Physics*, 44:5061–5069, 2017. ISSN 2473-4209. doi: 10.1002/mp.12482. URL http://dx.doi.org/10.1002/mp.12482 [robot] [medical] (Q1)

19. Konstantinos Loupos, Anastasios D Doulamis, Christos Stentoumis, Eftychios Protopapadakis, Konstantinos Makantasis, Nikolaos D Doulamis, Angelos Amditis, Philippe Chrobocinski, Juan G. Victores, Roberto Montero, Elisabeth Menendez, Carlos Balaguer, Rafa Lopez, Miquel Cantero, Roman Navarro, Alberto Roncaglia, Luca Belsito, Stephanos Camarinopoulos, Nikolaos Komodakis, and Praveer Singh. Autonomous robotic system for tunnel structural inspection and assessment. *International Journal of Intelligent Robotics and Applications*, pages 1–24, 2017. ISSN 2366-598X. doi: 10.1007/s41315-017-0031-9. URL https://doi.org/10.1007/s41315-017-0031-9 [robot] [construction]

20. David Estevez, Juan G. Victores, Santiago Morante, and Carlos Balaguer. Robot devastation: Using diy low-cost platforms for multiplayer interaction in an augmented reality game. *EAI Endorsed Transactions on Collaborative Computing*, 15:1–5, 2015a. doi: 10.4108/icst.intetain.2015.259753. URL http://dx.doi.org/10.4108/icst.intetain.2015.259753 [robot] [video-game]

21. Santiago Morante, Juan G. Victores, and Carlos Balaguer. Cryptobotics: Why robots need cyber safety. *Frontiers in Robotics and AI*, 2:1–4, 2015a. doi: 10.3389/frobt.2015.00023. URL http://dx.doi.org/10.3389/frobt.2015.00023 [robot] [cryptography]

22. Roberto Montero, Juan G. Victores, Santiago Martínez, Alberto Jardón, and Carlos Balaguer. Past, present and future of robotic tunnel inspection. *Automation in Construction*, 59:99–112, 2015a. doi: 10.1016/j.autcon.2015.02.003. URL http://dx.doi.org/10.1016/j.autcon.2015.02.003 [robot] [construction] (Q1)

23. Santiago Morante, Juan G. Victores, Alberto Jardón, and Carlos Balaguer. Humanoid robot imitation through continuous goal-directed actions: An evolutionary approach. *Advanced Robotics*, 29:303–314, 2015b. ISSN 1568-5535. doi: 10.1080/01691864.2014.964314. URL http://dx.doi.org/10.1080/01691864.2014.964314 [robot] [xgnitive: cgda] (Q4)

24. Juan G. Victores, Santiago Morante, Alberto Jardón, and Carlos Balaguer. An accessible interface for programming an assistive robot. *Journal of Accessibility and Design for All (JACCES)*, 4:161–176, 2014a. ISSN 2013-7087. doi: 10.17411/jacces.v4i3.49. URL http://dx.doi.org/10.17411/jacces.v4i3.49 [robot] [assistive]

25. Jonathan Crespo, Ramon Barber, Juan G. Victores, and Alberto Jardón. Algorithm for graph visibility obtainment from a map of non-convex polygons. *Journal of Mechanical Engineering and Robotics Research*, 3:150–170, 2014. ISSN 2278-0149. URL http://www.ijmerr.com/v3n2/ijmerr_v3n2_19.pdf [robot] [planning]

26. Santiago Martínez, Alberto Jardón, Juan G. Victores, and Carlos Balaguer. Flexible field factory for construction industry. *Assembly Automation*, 33:175–183, 2013. doi: 10.1108/01445151311306708. URL http://dx.doi.org/10.1108/01445151311306708 [robot] [construction] (Q4)

27. Alberto Jardón, Juan G. Victores, Santiago Martínez, and Carlos Balaguer. Experience acquisition simulator for operating microtuneling boring machines. *Automation in Construction*, 23:33–46, 2012a. doi: 10.1016/j.autcon.2011.12.002. URL http://dx.doi.org/10.1016/j.autcon.2011.12.002 [robot] [construction] (Q1)

28. Alberto Jardón, Juan G. Victores, Santiago Martínez, Antonio Giménez, and Carlos Balaguer. Personal autonomy rehabilitation in home environments by a portable assistive robot. *IEEE Trans. on Systems, Man, and Cybernetics, Part C: Applications and Reviews*, 42:561–570, 2011a. doi: 10.1109/TSMCC.2011.2159201. URL http://dx.doi.org/10.1109/TSMCC.2011.2159201 [robot] [assistive] (Q1)

29. Juan G. Victores, Santiago Martinez, Alberto Jardón, and Carlos Balaguer. Robot-aided tunnel inspection and maintenance system by vision and proximity sensor integration. *Automation in Construction*, 20:629–636, 2011a. ISSN 09265805. doi: 10.1016/j.autcon.2010.12.005. URL http://dx.doi.org/10.1016/j.autcon.2010.12.005 [robot] [construction] (Q1)

## Patents (2)

1. Alberto Jardón Huete, Santiago Martínez, Juan G. Victores, Carlos Balaguer, Rafael Portero, and Marc Martí. Sistema y método para la verificación de la trayectoria de un tunel, 2014. URL http://invenes.oepm.es/InvenesWeb/detalle?referencia=P201330794 [robot] [construction]

2. Juan G. Victores, Santiago Martinez, Alberto Jardón, and Carlos Balaguer. Tool and method for the automatic remote application of strips of fibre-reinforced polymer tape, comprising the dispensing of epoxy adhesive, 2011b. URL http://www.google.im/patents/WO2011138481A1?cl=en [robot] [construction]

## Book Chapters (9)

1. Juan G. Victores, Elisabeth Menendez, and Carlos Balaguer. Tunnel structural inspection and assessment using an autonomous robotic system. pages 185–203. Wiley Online Library, 2024. doi: 10.1002/9781394162871.ch9. URL https://doi.org/10.1002/9781394162871.ch9 [robot] [construction]

2. Raul Fernandez-Fernandez, Juan G. Victores, and Carlos Balaguer. New trends and challenges in the automatic generation of new tasks for humanoid robots. pages 169–176. CSIC, 5 2016. ISBN 978-84-608-8452-1. URL http://www.robocity2030.org/events/event/evento-esp-2-2/ [robot] [xgnitive: cgda]

3. David Estevez, Juan G. Victores, and Carlos Balaguer. A new generation of entertainment robots enhanced with augmented reality. pages 129–136. CSIC, 5 2016a. URL http://www.robocity2030.org/events/event/evento-esp-2-2/ [robot] [video-game]

4. David Estevez, Juan G. Victores, and Carlos Balaguer. Future trends in perception and manipulation for unfolding and folding garments. pages 333–340. CSIC, 5 2016b. URL http://www.robocity2030.org/events/event/evento-esp-2-2/ [robot] [textiles: folding]

5. Roberto Montero, Juan G. Victores, Elisabeth Menéndez, and Carlos Balaguer. The robot-spect eu project: Autonomous robotic tunnel inspection. pages 91–100. 2015b. URL http://www.robocity2030.org/events/event/13th-robocity2030-workshop/ [robot] [construction]

6. Santiago Morante, Juan G. Victores, Santiago Martínez, and Carlos Balaguer. Force-sensorless friction and gravity compensation for robots. volume 418. Springer International Publishing, 2015c. ISBN 9783319271484. doi: 10.1007/978-3-319-27149-1_5. URL http://doi.org/10.1007/978-3-319-27149-1_5 [robot] [modelling]

7. Alberto Jardón, Félix R. Cañadillas, Juan G. Victores, Santiago Martínez, and Carlos Balaguer. A review of eight years of ceabot contest: A national wide mini humanoids competition. pages 41–52. Springer International Publishing, 2014a. ISBN 978-3-319-03652-6. doi: 10.1007/978-3-319-03653-3_4. URL http://dx.doi.org/10.1007/978-3-319-03653-3_4 [robot] [educational]

8. Juan G. Victores, Félix R. Cañadillas, Santiago Morante, Alberto Jardón, and Carlos Balaguer. Assistive robot multi-modal interaction with augmented 3d vision and dialogue. pages 209–217. Springer International Publishing, 2014b. ISBN 978-3-319-03412-6. doi: 10.1007/978-3-319-03413-3_15. URL http://dx.doi.org/10.1007/978-3-319-03413-3_15 [robot] [assistive]

9. Carlos Balaguer and Juan G. Victores. Robotic tunnel inspection and repair. pages 445–460. CRC Press, 2010. URL http://www.crcpress.com/product/isbn/9780415551052 [robot] [construction]

## Conference Proceedings (71)

1. Bartek Łukawski, Edwin Daniel Oña, Alberto Jardón, Juan G. Victores, and Carlos Balaguer. Development of educational applications with abb gofa collaborative robot using externally guided motion. 7 2025a [robot] [educational]

2. Bartek Łukawski, Juan G. Victores, Carlos Balaguer, and Alberto Jardón. Interaction with a humanoid robot through a conversational interface using deepseek. 6 2025b. doi: 10.64117/simposioscea.v1i1.65. URL https://doi.org/10.64117/simposioscea.v1i1.65 [robot] [teleoperation]

3. Francisco J. Naranjo-Campos, Juan G. Victores, Carlos Balaguer, and Alberto Jardon. Algebraic machine learning for robotic garment unfolding. 6 2025. doi: 10.64117/simposioscea.v1i1.35. URL https://doi.org/10.64117/simposioscea.v1i1.35 [robot] [textiles: folding]

4. Bartek Łukawski, Ignacio Montesino, Edwin Daniel Oña, Juan G. Victores, Carlos Balaguer, and Alberto Jardon. Towards the development of telepresence applications with tiago and tiago++ using a virtual reality headset. pages 192–197, 4 2025c. doi: 10.1109/ICARSC65809.2025.10970173. URL https://doi.org/10.1109/ICARSC65809.2025.10970173 [robot] [teleoperation]

5. Ignacio Montesino, Juan G. Victores, Carlos Balaguer, and Alberto Jardón. Cartesian impedance control generalized to one-parameter splines. pages 4701–4707, 2024a. doi: 10.1109/IROS58592.2024.10801939. URL https://doi.org/10.1109/IROS58592.2024.10801939 [robot] [assistive]

6. Alicia Herrera García-Mascaraque, Ignacio Montesino, Juan G. Victores, Carlos Balaguer, and Alberto Jardón. Integrator for musculoskeletal simulation in python. Universidade da Coruña. Servizo de publicacións, 7 2024. URL https://doi.org/10.17979/ja-cea.2024.45.10802 [robot] [assistive]

7. Ignacio Montesino, Hugo Alonso Camara, Juan G. Victores, Carlos Balaguer, and Alberto Jardón. Geodesic restricted aruco-based positioning for vr rehabilitation robotics. Universidade da Coruña. Servizo de publicacións, 7 2024b. URL https://doi.org/10.17979/ja-cea.2024.45.10964 [robot] [assistive]

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9. Francisco J. Naranjo-Campos, Ainhoa De Matías-Martínez, Juan G. Victores, José A. Gutiérrez Dueñas, Almudena Alcaide, and Carlos Balaguer. Robot tiago para servicio en cafetería. Universidade da Coruña. Servizo de publicacións, 7 2024d. URL https://doi.org/10.17979/ja-cea.2024.45.10795 [robot] [assistive]

10. Bartek Łukawski, Alberto Rodríguez-Sanz, Elisabeth Menendez, Juan G. Victores, and Carlos Balaguer. A user-friendly point cloud processing pipeline for interfacing pcl with yarp. Universidade da Coruña. Servizo de publicacións, 7 2024a. URL https://doi.org/10.17979/ja-cea.2024.45.10925 [robot] [teleoperation]

11. Ana Calzada, Bartek Łukawski, Juan G. Victores, and Carlos Balaguer. Teleoperation of the robot tiago with a 3d mouse controller. pages 133–138. Universidad de Extremadura. Servicio de Publicaciones, 5 2024. ISBN 978-84-9127-262-5. URL http://hdl.handle.net/10662/21260 [robot] [teleoperation]

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13. Johnny J. Yepez-Figueroa, Juan G. Victores, Alberto Jardón, and Carlos Balaguer. Diseño mecatrónico y construcción de un robot móvil omni-direccional de tres ruedas para transporte de carga en ambientes industriales. pages 43–48. Universidad de Extremadura. Servicio de Publicaciones, 5 2024. ISBN 978-84-9127-262-5. URL http://hdl.handle.net/10662/21260 [robot] [design]

14. Francisco José Naranjo-Campos, Ainhoa de Matías Martínez, Juan G. Victores, José Antonio Gutiérrez Dueñas, Almudena Alcaide, and Carlos Balaguer. Detección y manipulación de botellas con el robot móvil manipulador tiago. pages 37–42. Universidad de Extremadura. Servicio de Publicaciones, 5 2024e. ISBN 978-84-9127-262-5. URL http://hdl.handle.net/10662/21260 [robot] [assistive]

15. Bartek Łukawski, Juan G. Victores, and Carlos Balaguer. A generic controller for teleoperation on robotic manipulators using low-cost devices. pages 785–788. Servizo de Publicacións. Universidade da Coruña, 9 2023. doi: 10.17979/spudc.9788497498609.785. URL https://doi.org/10.17979/spudc.9788497498609.785 [robot] [assistive]

16. Sofia Hernández Pérez, Ignacio Montesino Valle, Juan G. Victores, Edwin Daniel Oña, and Alberto Jardón Huete. Ros2 gesture classification pipeline towards gamified neuro-rehabilitation therapy. pages 611–616. Servizo de Publicacións. Universidade da Coruña, 9 2023. doi: 10.17979/spudc.9788497498609.611. URL https://doi.org/10.17979/spudc.9788497498609.611 [robot] [assistive]

17. Ainhoa De Matías-Martínez, Francisco J. Naranjo-Campos, Juan G. Victores, and Carlos Balaguer. Planificador global se(2) para la navegación de robots móviles manipuladores en ros. pages 85–90. CEA UPM CSIC, 6 2023. ISBN 978-84-09-51892-0. doi: 10.20868/UPM.book.74896. URL https://doi.org/10.20868/UPM.book.74896 [robot] [planning]

18. Bartek Łukawski, Ignacio Montesino Valle, Juan G. Victores, Alberto Jardón, and Carlos Balaguer. An inverse kinematics problem solver based on screw theory for manipulator arms. pages 864–869. Servizo de Publicacións da UDC, 9 2022. doi: 10.17979/spudc.9788497498418.0864. URL https://doi.org/10.17979/spudc.9788497498418.0864 [robot] [kinematics]

19. Ignacio Montesino Valle, Bartek Łukawski, Juan G. Victores, Alberto Jardón Huete, and Carlos Balaguer. Entorno de gym basado en impedancia para el robot colaborativo iiwa de cara a interacción humano robot. pages 762–769. Servizo de Publicacións da UDC, 9 2022. doi: 10.17979/spudc.9788497498418.0762. URL https://doi.org/10.17979/spudc.9788497498418.0762 [robot] [assistive]

20. Francisco José Naranjo-Campos, Ainhoa de Matías Martínez, Juan G. Victores, Nicolás Álvarez López, Almudena Alcaide Raya, and Carlos Balaguer. Manipulación de objetos dirigida a la asistencia de personas con movilidad reducida. pages 798–803. Servizo de Publicacións da UDC, 9 2022. doi: 10.17979/spudc.9788497498418.0798. URL https://doi.org/10.17979/spudc.9788497498418.0798 [robot] [assistive]

21. Raul Fernandez-Fernandez, Marco Aggravi, Paolo Robuffo Giordano, Juan G. Victores, and Claudio Pacchierotti. Neural style transfer with twin-delayed ddpg for shared control of robotic manipulators. pages 4073–4079, 5 2022b. doi: 10.1109/ICRA46639.2022.9812245. URL https://doi.org/10.1109/ICRA46639.2022.9812245 [robot] [xgnitive: cgda]

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24. Jennifer J. Gago, Valentina Vasco, Bartek Łukawski, Ugo Pattacini, Vadim Tikhanoff, Juan G. Victores, and Carlos Balaguer. Sequence-to-sequence natural language to humanoid robot sign language. page 44. ARGESIM, 7 2019b. ISBN 978-3-901608-92-6. doi: 10.11128/arep.58. URL https://www.doi.org/10.11128/arep.58 [robot] [sign-language]

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28. Raul Fernandez-Fernandez, Juan G. Victores, David Estevez, and Carlos Balaguer. Robot imitation through vision, kinesthetic and force features with online adaptation to changing environments. pages 6546–6551. IEEE, 2018b. ISBN 978-1-5386-8094-0. doi: IROS.2018.8593724. URL https://doi.org/10.1109/IROS.2018.8593724 [robot] [xgnitive: cgda]

29. David Estevez, Juan G. Victores, Raul Fernandez-Fernandez, and Carlos Balaguer. Robotic ironing with 3d perception and force/torque feedback in household environments. volume 2017-Septe, pages 6484–6489. IEEE, 2017a. ISBN 9781538626818. doi: 10.1109/IROS.2017.8206556. URL https://doi.org/10.1109/IROS.2017.8206556 [robot] [textiles: ironing]

30. Elisabeth Menendez, Juan G. Victores, and Carlos Balaguer. Sistema robótico para la inspección y análisis estructural de túneles. 2017a. URL http://jnr2017.ai2.upv.es/wp-content/uploads/2016/11/Programa-JNR2017.pdf [robot] [construction]

31. David Estevez, Juan G. Victores, and Carlos Balaguer. Horus: Inspección robotizada de los trajes de protección del personal sanitario de pacientes en aislamiento de alto nivel, incluido el Ébola. 2017b [robot] [horus]

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## PhD Thesis (Author)

1. Juan G. Victores. *Robot Imagination System*. PhD thesis, Universidad Carlos III de Madrid, 2014. URL https://hdl.handle.net/10016/19834

## PhD Thesis (Advisor)

1. Raul Fernandez-Fernandez. *Action Generalization in Humanoid Robots Through Artificial Intelligence With Learning From Demonstration*. PhD thesis, Universidad Carlos III de Madrid, 9 2021. URL https://hdl.handle.net/10016/33536

2. David Estevez. *Robotic System for Garment Perception and Manipulation*. PhD thesis, Universidad Carlos III de Madrid, 11 2020. URL https://hdl.handle.net/10016/32186

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## Research Stays (2)

| | |
|---|---|
| Oct. 2018 – Jan. 2019 | **The University of Manchester**. Cognitive Robotics Lab. Estancia de 3 meses destinado a la investigación del uso de Deep Learning para el estudio de conceptos abstractos con el robot iCub (Manchester, UK). |
| Sept. 2011 – Dic. 2011 | **Istituto Italiano di Tecnologia**. Department of Robotics, Brain and Cognitive Sciences. Estancia de 3 meses destinado a la investigación del uso de Support Vector Machines y Gaussianas mixtas para el control en fuerza del robot iCub (Génova, Italia). |

## Workshop Organizer (2)

1. Juan G. Victores, Lorenzo Natale, Eiichi Yoshida. Towards Humanoid Robots OS. HUMANOIDS. Cancun, Mexico. Nov 15. 2016. https://roboticslab-uc3m.github.io/workshop-humanoids2016/

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## Talks (2)

1. Juan G. Victores. XGNITIVE: Avances hacia la generalización avanzada de acciones y sistemas de imaginación en robótica. Technology Festival (Techfest). Universidad Rey Juan Carlos (URJC). 2017. https://www.eventbrite.es/e/registro-technology-festival-urjc-2017-28838850779?aff=es2#

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