Juan G. Victores

Journal Articles (23)

1. 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] [assistive] (Q2)

2. 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)

3. 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)

4. 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)

5. 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)

6. 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)

7. 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)

8. 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)

9. 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)

10. 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)

11. 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)

12. 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)

13. 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]

14. 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]

15. 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]

16. 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)

17. 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)

18. 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]

19. 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]

20. 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)

21. 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)

22. 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)

23. 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] [contests]

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 (51)

1. 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]

2. Jennifer J. Gago, Bartek Łukawski, Juan G. Victores, and Carlos Balaguer. Under-actuation modelling in robotic hands via neural networks for sign language representation with end-user validation. pages 239–251. Springer International Publishing, 2020. ISBN 978-3-030-62365-4. URL https://doi.org/10.1007/978-3-030-62365-4_23 [robot] [sign-language]

3. J. Enrique Sierra-Garcia, Matilde Santos, and Juan G. Victores. Neural controller of uavs with inertia variations. pages 169–177. Springer International Publishing, 11 2019. ISBN 978-3-030-33617-2. doi: 10.1007/978-3-030-33617-2_19. URL https://doi.org/10.1007/978-3-030-33617-2_19 [robot] [control]

4. 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]

5. David Estevez, Juan G. Victores, Raul Fernandez-Fernandez, and Carlos Balaguer. Towards clothes hanging via cloth simulation and deep convolutional networks. page 35. ARGESIM, 7 2019. ISBN 978-3-901608-92-6. doi: 10.11128/arep.58. URL https://www.doi.org/10.11128/arep.58 [robot] [textiles: hanging]

6. Raul Fernandez-Fernandez, Juan G. Victores, David Estevez, and Carlos Balaguer. Quick, stat!: A statistical analysis of the quick, draw! dataset. page 27. ARGESIM, 7 2019. ISBN 978-3-901608-92-6. doi: 10.11128/arep.58. URL https://www.doi.org/10.11128/arep.58 [robot] [xgnitive: drl]

7. Jennifer J. Gago, Bartek Łukawski, Juan G. Victores, and Carlos Balaguer. A study on the effects of an embodied humanoid robot representing sign language. pages 26–28, 2019c. URL https://calc.ff.cuni.cz/en/gswp19_programme/ [robot] [sign-language]

8. 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]

9. 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]

10. 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]

11. 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]

12. Elisabeth Menendez, Juan G. Victores, Roberto Montero, and Carlos Balaguer. Autonomous robotic system with tunnel inspection tool positioning. pages 655–662, 2017b. URL https://doi.org/10.22260/ISARC2017/0091 [robot] [construction]

13. Roberto Montero, Elisabeth Menendez, Juan G. Victores, and Carlos Balaguer. Intelligent robotic system for autonomous crack detection and caracterization in concrete tunnels. pages 316–321. IEEE, 2017. ISBN 9781509062331. doi: 10.1109/ICARSC.2017.7964094. URL https://doi.org/10.1109/ICARSC.2017.7964094 [robot] [construction]

14. David Estevez, Raul Fernandez-Fernandez, Juan G. Victores, and Carlos Balaguer. Robotic ironing with a humanoid robot using human tools. pages 134–139. IEEE, 2017c. ISBN 9781509062331. doi: 10.1109/ICARSC.2017.7964065. URL https://doi.org/10.1109/ICARSC.2017.7964065 [robot] [textiles: ironing]

15. David Estevez, Raul Fernandez-Fernandez, Juan G. Victores, and Carlos Balaguer. Improving and evaluating robotic garment unfolding: A garment-agnostic approach. IEEE, 2017d. ISBN 9781509062331. doi: 10.1109/ICARSC.2017.7964077. URL https://doi.org/10.1109/ICARSC.2017.7964077 [robot] [textiles: folding]

16. Raul Fernandez-Fernandez, David Estevez, Juan G. Victores, and Carlos Balaguer. Improving cgda execution through genetic algorithms incorporating spatial and velocity constraints. pages 290–295. IEEE, 2017a. ISBN 9781509062331. doi: 10.1109/ICARSC.2017.7964090. URL https://doi.org/10.1109/ICARSC.2017.7964090 [robot] [xgnitive: cgda]

17. Raul Fernandez-Fernandez, David Estevez, Juan G. Victores, and Carlos Balaguer. Reducing the number of evaluations required for cgda execution through particle swarm optimization methods. pages 284–289. IEEE, 2017b. ISBN 9781509062331. doi: 10.1109/ICARSC.2017.7964089. URL https://doi.org/10.1109/ICARSC.2017.7964089 [robot] [xgnitive: cgda]

18. David Estevez, Juan G. Victores, and Carlos Balaguer. A lightweight finite state machine c++ library aimed at seamless integration with robotic middlewares. 11 2016c. URL https://roboticslab-uc3m.github.io/workshop-humanoids2016 [robot] [video-game]

19. Konstantinos Loupos, Angelos Amditis, Anastasios Doulamis, Philippe Chrobocinski, Juan G. Victores, Max Wietek, Panagiotis Panetsos, Alberto Roncaglia, Stephanos Camarinopoulos, Vassileios Kallidromitis, Dimitrios Bairaktaris, Nikolaos Komodakis, and Rafa Lopez. Integrated robotic solution for tunnel structural evaluation and characterization – robo-spect ec project. 2016. URL http://www.icsic.eng.cam.ac.uk/programme/programme21june/view [robot] [construction]

20. David Estevez, Juan G. Victores, Santiago Morante, and Carlos Balaguer. Towards robotic garment folding: A vision approach for fold detection. 5 2016d. doi: 10.1109/ICARSC.2016.65. URL https://doi.org/10.1109/ICARSC.2016.65 [robot] [textiles: folding]

21. Santiago Morante, Juan G Victores, and Carlos Balaguer. Automatic demonstration and feature selection for robot learning. pages 428–433. IEEE, 2015d. doi: 10.1109/HUMANOIDS.2015.7363569. URL http://dx.doi.org/10.1109/HUMANOIDS.2015.7363569 [robot] [xgnitive: cgda]

22. Konstantinos Loupos, Angelos Amditis, Christos Stentoumis, Juan G. Victores, Philippe Chrobocinski, Alberto Roncaglia, Stephanos Camarinopoulos, Nikos Komodakis, and Rafael Lopez. Robotic system with intelligent vision for tunnel structural assessment - system architecture – the robospect ec project. 2015. URL https://data.smar-conferences.org/SMAR_2015_Proceedings/html/L.html [robot] [construction]

23. 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. volume 15, pages 32–36. IEEE, 6 2015b. ISBN 9781479983773. URL http://ieeexplore.ieee.org/document/7325482/ [robot] [video-game]

24. Konstantinos Loupos, Angelos Amditis, Christos Stentoumis, Philippe Chrobocinski, Juan G. Victores, Max Wietek, Panagiotis Panetsos, Alberto Roncaglia, Stephanos Camarinopoulos, Vassilis Kalidromitis, Dimitris Bairaktaris, Nikos Komodakis, and Rafa Lopez. Robotic intelligent vision and control for tunnel inspection and evaluation - the robinspect ec project. 2014. URL http://dx.doi.org/10.1109/ROSE.2014.6952986 [robot] [construction]

25. Alberto Jardón, Santiago Martínez, Juan G. Victores, and Carlos Balaguer. Extended range guidance system for the teleoperation of microtunnelling machines. pages 837–846. University of Technology, Sydney, 2014b. URL http://www.isarc2014.org/pdfs/ISARC2014_Proceedings-NewISBN.pdf [robot] [construction]

26. Carlos Balaguer, Roberto Montero, Juan G. Victores, Santiago Martínez, and Alberto Jardón. Towards fully automated tunnel inspection: A survey and future trends. pages 19–33. University of Technology, Sydney, 2014. URL http://www.isarc2014.org/pdfs/ISARC2014_Proceedings-NewISBN.pdf [robot] [construction]

27. Santiago Morante, Juan G. Victores, Alberto Jardón, and Carlos Balaguer. On using guided motor primitives to execute continuous goal-directed actions. volume 2014-Octob. IEEE, 2014a. doi: 10.1109/ROMAN.2014.6926320. URL https://doi.org/10.1109/ROMAN.2014.6926320 [robot] [xgnitive: cgda]

28. Santiago Morante, Juan G. Victores, Alberto Jardón, and Carlos Balaguer. Action effect generalization, recognition and execution through continuous goal-directed actions. IEEE, 2014b. doi: 10.1109/ICRA.2014.6907098. URL http://dx.doi.org/10.1109/ICRA.2014.6907098 [robot] [xgnitive: cgda]

29. Juan G. Victores, Santiago Morante, Alberto Jardón, and Carlos Balaguer. Creación de tareas de asistencia robótica mediante la interacción multimodal. pages 21–24, 2013a. URL http://iberdiscap2013.pucmm.edu.do/programa [robot] [assistive]

30. Juan G. Victores, Santiago Morante, Alberto Jardón, and Carlos Balaguer. Towards robot imagination through object feature inference. pages 5694–5699. IEEE, 2013b. doi: 10.1109/IROS.2013.6697181. URL http://dx.doi.org/10.1109/IROS.2013.6697181 [robot] [xgnitive: ris]

31. Martin F. Stoelen, Virginia F. Tejada, Juan G. Victores, Alberto Jardón, Fabio Bonsignorio, and Carlos Balaguer. Adaptive collision-limitation behavior for an assistive manipulator. pages 1143–1148, 2013. doi: 10.1109/IROS.2013.6696494. URL http://dx.doi.org/10.1109/IROS.2013.6696494 [robot] [control]

32. Félix R. Cañadillas, Alberto Jardón, Carlos Balaguer, and Juan G. Victores. Diseño preliminar de interfaces de realidad aumentada para el robot asistencial asibot. pages 213–219, 2013. URL http://www.discapnet.es/Castellano/areastematicas/tecnologia/DRT4ALL/EN/DRT4ALL1013/Paginas/Introduction.aspx [robot] [assistive]

33. Juan G. Victores, Santiago Morante, Alberto Jardón, and Carlos Balaguer. "give me the red can": Assistive robot task creation through multi-modal interaction. 2013c. URL http://www.discapnet.es/Castellano/areastematicas/tecnologia/DRT4ALL/EN/DRT4ALL1013/Paginas/Introduction.aspx [robot] [assistive]

34. Miguel González-Fierro, Miguel Angel Maldonado, Juan G. Victores, Santiago Morante, and Carlos Balaguer. Object tagging for human-robot interaction by recolorization using gaussian mixture models. 2013. URL https://www.researchgate.net/publication/269631653_Object_Tagging_for_Human-Robot_Interaction_by_Recolorization_Using_Gaussian_Mixture_Models [robot] [vision]

35. Juan G. Victores, Santiago Morante, Alberto Jardón, and Carlos Balaguer. Semantic action parameter inference through machine learning methods. pages 35–46, 2013d. URL https://www.researchgate.net/publication/269631454_Semantic_Action_Parameter_Inference_through_Machine_Learning_Methods [robot][xgnitive: ris]

36. Juan G. Victores, Santiago Morante, Miguel González-Fierro, and Carlos Balaguer. Augmented reality and social interaction platform through multirobot design. pages 131–143, 2013e. URL https://www.researchgate.net/publication/269630253_Augmented_reality_and_social_interaction_platform_through_multirobot_design [robot] [assistive]

37. Alberto Jardón, Santiago Martínez, Juan G. Victores, M. Marti, and Carlos Balaguer. Extended range guidance system for micro-tunnelling machine. 2012b. URL http://gerontechnology.info/index.php/journal/article/view/1814 [robot] [construction]

38. Alberto Jardón, Juan G. Victores, Martin F Stoelen, Santiago Martínez, and Carlos Balaguer. Experimental evaluation of assistive robots in virtual domestic scenarios. 2012c. URL http://www.gerontechnology.info/index.php/journal/article/view/gt.2012.11.02.489.00 [robot] [construction]

39. Juan Gonzalez-Gomez, Juan G. Victores, Alberto Valero-Gomez, and Mohammed Abderrahim. Motion control of differential wheeled robots with joint limit constraints. pages 596–601, 2011. doi: 10.1109/ROBIO.2011.6181351. URL http://dx.doi.org/10.1109/ROBIO.2011.6181351 [robot] [control]

40. Carlos Balaguer, Alberto Jardón, Concepción Monje, Fabio Bonsignorio, Martin F Stoelen, Santiago Martínez, and Juan G. Victores. Sultan: Simultaneous user learning and task execution, and its application in assistive robotics. pages 6–8, 2011. URL http://www.iros2011.org/WorkshopsAndTutorialsProceedings/MW3/iros11ws_assistive_robotics.pdf [robot] [assistive]

41. Alberto Jardón, Martin F Stoelen, Virginia Fernández, Juan G. Victores, Santiago Martínez, Carlos Balaguer, and Fabio Bonsignorio. Aplicación de teoría de la información para el modelado y cuantificación de la interacción persona-robot. pages 36–45. Fundación ONCE, 2011b. URL http://www.discapnet.es/Castellano/areastematicas/tecnologia/DRT4ALL/ES/DRT4ALL2011/Documents/Libro-de-actas-pdf [robot] [assistive]

42. Juan G. Victores, Alberto Jardón, Santiago Morante, Martin F Stoelen, Santiago Martinez, and Carlos Balaguer. Interacción humano-robot a través de interfaces en la nube. pages 75–92, 2011c. ISBN 978-84-7484-238-8. URL https://www.researchgate.net/publication/269574247_Interaccion_humano-robot_a_traves_de_interfaces_en_la_nube [robot] [assistive]

43. Martin F Stoelen, Alberto Jardón, Virginia Fernández, Juan G. Victores, Santiago Martinez, Fabio Bonsignorio, and Carlos Balaguer. Methodologies for experimental evaluation of assistive robotics hri. 2011. ISBN 978-84-614-5558. URL https://www.researchgate.net/publication/269574315_Methodologies_for_Experimental_Evaluation_of_Assistive_Robotics_HRI [robot] [assistive]

44. Juan G. Victores, Santiago Martinez, Alberto Jardón, and Carlos Balaguer. R.a.t.i.m. sistema robótico de inspección y mantenimiento de túneles. pages 373–382, 2010a. ISBN 978-84-614-5558. URL https://www.researchgate.net/publication/269574005_RATIM_Sistema_Robtico_de_Inspeccin_y_Mantenimiento_de_Tneles [robot] [construction]

45. Miguel González-Fierro, Alberto Jardón, Santiago Martinez, Martin F Stoelen, Juan G. Victores, and Carlos Balaguer. Educational initiatives related with the ceabot contest. pages 649–658, 2010. URL http://asrob.uc3m.es/svn/ASROBrepo/Documentos/articulos/29-TeachingRobotics.pdf [robot] [contests]

46. Juan G. Victores, Alberto Jardón, Martin F Stoelen, Santiago Martinez, and Carlos Balaguer. Asibot assistive robot with vision in a domestic environment. 2010b. ISBN 84-693-6777-3. URL https://www.researchgate.net/publication/269573982_ASIBOT_assistive_robot_with_vision_in_a_domestic_environment [robot] [vision]

47. Martin F Stoelen, Alberto Jardón, Juan G. Victores, Carlos Balaguer, and Fabio Bonsignorio. Information metrics for assistive human-in-the-loop cognitive systems. pages 1–6. Zaragoza. Spain., 2010a. URL http://www.heronrobots.com/EuronGEMSig/Downloads/Zaragoza/rss2010_gemrrrr.pdf [robot] [control]

48. Martin F Stoelen, Alberto Jardón, Fabio Bonsignorio, Juan G. Victores, Concepción Monje, and Carlos Balaguer. Towards an enabling multimodal interface for an assistive robot. 2010b. URL https://www.researchgate.net/publication/269573950_Towards_an_Enabling_Multimodal_Interface_for_an_Assistive_Robot [robot] [assistive]

49. Juan G. Victores, Alberto Jardón, Fabio Bonsignorio, Martin F Stoelen, and Carlos Balaguer. Benchmarking usability of assistive robotic systems: Methodology and application. 2010c. URL http://www.heronrobots.com/EuronGEMSig/downloads/Anchorage/ICRA10-experiments_final_uc3m.pdf [robot] [assistive]

50. Juan G. Victores, Santiago Martinez, Alberto Jardón, and Carlos Balaguer. Robot-aided tunnel inspection and maintenance system. pages 420–426, 2009. URL http://www.iaarc.org/publications/fulltext/Robot-aided_Tunnel_Inspection_and_Maintenance_System.pdf [robot] [construction]

51. Alberto Jardón, Juan G. Victores, Martin F Stoelen, Santiago Martinez, and Carlos Balaguer. Asibot assistive robot in a domestic environment. pages 611–614. ACM Press, 2009. ISBN 9781605584096. doi: 10.1145/1579114.1579175. URL http://portal.acm.org/citation.cfm?doid=1579114.1579175 [robot] [assistive]

Conference Videos (2)

1. Juan G Victores, Santiago Morante, Alberto Jardón, and Carlos Balaguer. On using humanoid robot imagination to perform the shortened token test. page 172. IEEE, 2014c. doi: 10.1109/HUMANOIDS.2014.7041355. URL https://youtu.be/KFHFW9dJfzA [robot] [xgnitive: ris]

2. Santiago Morante, Juan G Victores, Santiago Martinez de la casa, and Carlos Balaguer. Sensorless friction and gravity compensation. page 265. IEEE, 2014c. doi: 10.1109/HUMANOIDS.2014.7041370. URL https://www.dailymotion.com/video/x2vjrfs [robot] [modelling]

PhD Thesis (Author)

1. Juan G. Victores. *Robot Imagination System*. PhD thesis, 2014. URL http://e-archivo.uc3m.es/handle/10016/19834

PhD Thesis (Advisor)

1. Santiago Morante. *Continuous Goal-Directed Actions: Advances in Robot Learning*. PhD thesis, Universidad Carlos III de Madrid, mar 2016. URL http://e-archivo.uc3m.es/handle/10016/23459

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/

2. Angelos Amditis, Konstantinos Loupos, Juan G. Victores. Autonomous Robotic Systems for Inspection and Structural Assessment of Civil Underground Infrastructures. European Robotics Forum (ERF). Ljubljana, Slovenia. Mar 22. 2016. https://www.eu-robotics.net/robotics_forum/upload/digest_1-96_without_emails_250ppi1.pdf

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#

2. Angelos Amditis, Juan G. Victores, Fedi Francesco. Welcome and Introduction. Autonomous Robotic Systems for Inspection and Structural Assessment of Civil Underground Infrastructures. European Robotics Forum (ERF). Ljubljana, Slovenia. Mar 22. 2016. https://www.eu-robotics.net/robotics_forum/upload/digest_1-96_without_emails_250ppi1.pdf