

Juan G. Victores

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1. 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)
2. 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)
3. 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)
4. 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)
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8. 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)
9. 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)
10. 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)

11. Santiago Martinez, Juan Miguel Garcia-Haro, Juan G. Victores, Alberto Jardón, 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)
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13. 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)
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19. 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]
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23. Alberto Jardón, Juan G. Victores, Santiago Martínez, Antonio Giménez, and Carlos Balaguer. Personal autonomy rehabilitation in home environments by a portable assistive robot. *IEEE Transactions 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)
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Patents (2)

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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]

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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]
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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]

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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 (59)

1. 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, 5 2024. ISBN 978-84-9127-262-5. URL <http://hdl.handle.net/10662/21260> [robot] [design]
2. 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, 5 2024. ISBN 978-84-9127-262-5. URL <http://hdl.handle.net/10662/21260> [robot] [assistive]
3. 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]
4. 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]
5. 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]
6. 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]
7. 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.

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8. Francisco José Naranjo-Campos, Ainhoa de Matías Martínez, Juan Carlos González 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]
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- Sept. 2011 – **Istituto Italiano di Tecnologia**. Department of Robotics, Brain and Cognitive Sciences.
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