

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]
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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7. 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)
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)
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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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Patents (2)

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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]
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1. 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]
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3. 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]
4. 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]
5. 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]
6. 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.
Dic. 2011 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).

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