

# Juan G. Victores

## Journal Articles (18)

1. 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*, oct 2019a (Q2) [accepted 16-Oct-2019]
2. 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(7):743, jun 2019. doi: 10.3390/electronics8070743. URL <https://doi.org/10.3390/electronics8070743> (Q2)
3. Jennifer Gago, Juan G. Victores, and Carlos Balaguer. Sign Language Representation by TEO Humanoid Robot: End-User Interest, Comprehension and Satisfaction. *Electronics*, 8(1):57, jan 2019a. ISSN 2079-9292. doi: 10.3390/electronics8010057. URL <https://doi.org/10.3390/electronics8010057> (Q2)
4. 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(11):3818, nov 2018a. ISSN 1424-8220. doi: 10.3390/s18113818. URL <https://doi.org/10.3390/s18113818> (Q1)
5. 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(3):836, mar 2018. ISSN 14248220. doi: 10.3390/s18030836. URL <https://doi.org/10.3390/s18030836> (Q1)
6. 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, mar 2018. ISSN 09265805. doi: 10.1016/j.autcon.2017.12.001. URL <https://doi.org/10.1016/j.autcon.2017.12.001> (Q1)
7. 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(10):5061–5069, 2017. ISSN 2473-4209. doi: 10.1002/mp.12482. URL <http://dx.doi.org/10.1002/mp.12482> (Q1)
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13. 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(3):161–176, 2014a. ISSN 2013-7087. doi: 10.17411/jacces.v4i3.49. URL <http://dx.doi.org/10.17411/jacces.v4i3.49>
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## 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>
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>

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1. Raul Fernandez-Fernandez, Juan G. Victores, and Carlos Balaguer. New Trends and Challanges in the Automatic Generation of New Tasks for Humanoid Robots. In *Robocity16: Open Conference on*

- Future Trends in Robotics*, pages 169–176. CSIC, Madrid, may 2016. ISBN 978-84-608-8452-1. URL <http://www.robocity2030.org/events/event/evento-esp-2-2/>
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  4. Roberto Montero, Juan G. Victores, Elisabeth Menéndez, and Carlos Balaguer. The Robot-Spect EU Project: Autonomous Robotic Tunnel Inspection. In *Robocity2030 13th Workshop EU robotic projects results*, pages 91–100. Leganés, 2015b. URL <http://www.robocity2030.org/events/event/13th-robocity2030-works>
  5. Santiago Morante, Juan G. Victores, Santiago Martínez, and Carlos Balaguer. Force-sensorless friction and gravity compensation for robots. In *Advances in Intelligent Systems and Computing*, volume 418, chapter Robot 2015. Springer International Publishing, 2015c. ISBN 9783319271484. doi: 10.1007/978-3-319-27149-1\_5
  6. 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. In Manuel A. Armada, Alberto Sanfeliu, and Manuel Ferre, editors, *ROBOT2013: First Iberian Robotics Conference*, 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](http://dx.doi.org/10.1007/978-3-319-03653-3_4)
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  8. Carlos Balaguer and Juan G. Victores. Robotic tunnel inspection and repair. In *Technology Innovation in Underground Construction*, pages 445–460. CRC Press, 2010. URL <http://www.crcpress.com/product/isbn/9780415551052>

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1. 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. In *EUROSIM 2019*, page 44, Logroño, jul 2019b. ISBN 978-3-901608-92-6. doi: 10.11128/arep.58. URL <https://www.doi.org/10.11128/arep.58>
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5. 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. In *2018 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, pages 6546–6551, Madrid, 2018b. IEEE. ISBN 978-1-5386-8094-0. doi: IROS.2018.8593724. URL <https://doi.org/10.1109/IROS.2018.8593724>
6. David Estevez, Juan G. Victores, Raul Fernandez-Fernandez, and Carlos Balaguer. Robotic ironing with 3D perception and force/torque feedback in household environments. In IEEE, editor, *2017 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, volume 2017-Septe, pages 6484–6489, Vancouver, BC, Canada, 2017a. IEEE. ISBN 9781538626818. doi: 10.1109/IROS.2017.8206556. URL <https://doi.org/10.1109/IROS.2017.8206556>
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9. Elisabeth Menendez, Juan G. Victores, Roberto Montero, and Carlos Balaguer. Autonomous Robotic System with Tunnel Inspection Tool Positioning. In *Proceedings of the International Symposium on Automation and Robotics in Construction (ISARC)*, pages 655–662, Taipei, Taiwan, 2017b. URL <https://doi.org/10.22260/ISARC2017/0091>
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21. 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. In *IEEE International Symposium on Robotic and Sensors Environments (ROSE)*, Timisoara, Romania, 2014. URL <http://dx.doi.org/10.1109/ROSE.2014.6952986>
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## 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. In *IEEE RAS International Conference on Humanoid Robots (Humanoids 2014)*, page 172, Madrid, 2014c. IEEE. doi: 10.1109/HUMANOIDS.2014.7041355. URL <https://youtu.be/KFHFw9dJfzA>
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## PhD Thesis (Author)

1. Juan G. Victores. *Robot Imagination System*. PhD thesis, Universidad Carlos III de Madrid, 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 – **The University of Manchester.** Cognitive Robotics Lab.  
Jan. 2019 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 – **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).

## 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](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](https://www.eu-robotics.net/robotics_forum/upload/digest_1-96_without_emails_250ppi1.pdf)