# Juan G. Victores

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- 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*, 123: 103330, jan 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)
- 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 [robot] [textiles: horus] (Q2)
- 3. Jennifer J. 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 [robot] [sign-language] (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 [robot] [xgnitive: cgda] (Q1)
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- 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 [robot] [construction] (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 [robot] [medical] (Q1)
- 8. 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]
- 9. 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*

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- 12. Santiago Morante, Juan G. Victores, Alberto Jardón, and Carlos Balaguer. Humanoid Robot Imitation through Continuous Goal-Directed Actions: An Evolutionary Approach. *Advanced Robotics*, 29(Special issue: Humanoid robots):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)
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- 2. David Estevez, Juan G. Victores, and Carlos Balaguer. A New Generation of Entertainment Robots Enhanced with Augmented Reality. In *RoboCity16: Open Conference on Future Trends in Robotics*, pages 129–136. CSIC, Madrid, may 2016a. URL http://www.robocity2030.org/events/event/evento-esp-2-2/ [robot] [video-game]
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- 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 [robot] [modelling]
- 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 [robot] [contests]
- 7. Juan G. Victores, Félix R. Cañadillas, Santiago Morante, Alberto Jardón, and Carlos Balaguer. Assistive Robot Multi-modal Interaction with Augmented 3D Vision and Dialogue. In Manuel A. Armada, Alberto Sanfeliu, and Manuel Ferre, editors, ROBOT2013: First Iberian Robotics Conference, pages 209–217. Springer International Publishing, Madrid, 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]
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- 1. J. Enrique Sierra-Garcia, Matilde Santos, and Juan G. Victores. Neural controller of UAVs with inertia variations. In *IDEAL 2019*, pages 169–177, Manchester, nov 2019. Springer International Publishing. 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]
- 2. 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. ARGESIM. ISBN 978-3-901608-92-6. doi: 10.11128/arep.58. URL https://www.doi.org/10.11128/arep.58 [robot] [sign-language]
- 3. David Estevez, Juan G. Victores, Raul Fernandez-Fernandez, and Carlos Balaguer. Towards Clothes Hanging via Cloth Simulation and Deep Convolutional Networks. In *EUROSIM 2019*, page 35, Logroño, jul 2019. ARGESIM. ISBN 978-3-901608-92-6. doi: 10.11128/arep.58. URL https://www.doi.org/10.11128/arep.58 [robot] [textiles: hanging]
- 4. Raul Fernandez-Fernandez, Juan G. Victores, David Estevez, and Carlos Balaguer. Quick, Stat!: A Statistical Analysis of the Quick, Draw! Dataset. In *EUROSIM 2019*, page 27, Logroño, jul 2019. ARGESIM. ISBN 978-3-901608-92-6. doi: 10.11128/arep.58. URL https://www.doi.org/10.11128/arep.58 [robot] [xgnitive: drl]
- 5. Jennifer J. Gago, Bartek Łukawski, Juan G. Victores, and Carlos Balaguer. A Study on the Effects of an Embodied Humanoid Robot Representing Sign Language. In *Gesture-Sign Workshop*, pages 26–28, Prague, 2019c. URL https://calc.ff.cuni.cz/en/gswp19\_programme/ [robot] [sign-language]
- 6. 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 [robot] [xgnitive: cgda]
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- 8. Elisabeth Menendez, Juan G. Victores, and Carlos Balaguer. Sistema robótico para la inspección y análisis estructural de túneles. In *Jornadas Nacionales de Robótica*, 2017a. URL http://jnr2017.ai2.upv.es/wp-content/uploads/2016/11/Programa-JNR2017.pdf [robot] [construction]
- 9. 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. In *Jornadas Nacionales de Robótica*, 2017b [robot] [horus]
- 10. 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 [robot] [construction]
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#### Conference Videos (2)

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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

#### Talks (2)

- 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