

Luis Pastor

Present position:

- Full Professor. Computer Science & Engineering School, Univ. Rey Juan Carlos (URJC); Madrid, Spain

Education:

- PhD in Electrical Engineering (UPM - Polytechnic University of Madrid, Spain)
- MS on Electrical & Computer Engineering (Drexel University, Philadelphia, USA)
- Electrical Engineer (UPM - Polytechnic University of Madrid, Spain)

Academic positions:

- Founding director of the School of Computer Science and Engineering, URJC (two terms)
- Founding Director of the Department of Computer Science, Statistics and Telematics, URJC (3 years)

Research: Publications

- 13 Q1 and 15 Q2 articles in JCR listed magazines.
- Total number of citations: 2153 (1186 since 2018); 218 average per year (2018-2022).
- h-index of 16 (10 since 2018; Google Scholar data)
- Five 6-year Spanish research periods recognized; an additional one for Technology Transfer

Research: projects & patents

- Directed the Spanish/URJC/UPM contributions to 13 EU funded projects and other 28 nationally or regionally funded projects.
- Five patents, one of them corresponding to the arthroscopy surgery simulator ARTHRO Mentor, sold worldwide nowadays by Simbionix

Research: lines of interest

- Multimodal interaction and technology-enhanced education & training
 - Technology-enhanced education. Educational robotics and videogames for special needs children.
 - VR-based trainers for medical applications
- Visual computing (data & scientific visualization, computer graphics & imaging)
- High-performance computing. Multimodal interaction and VR for educational and cultural applications.

Others:

- Opened a start-up for computer vision-based automated inspection systems for industrial applications.
- Fluent in Spanish, French and English; basic knowledge of Portuguese, Italian and German.
- Interested in reading and outdoor & nature activities (hiking, biking, skiing, sailing, caving, etc.).

Some publications:

- Vidaurre-Gallart Isabel, Fernaud-Espinosa Isabel, Cosmin-Toader Nicusor, Talavera-Martínez Lidia, Martín-Abadal Miguel, Benavides-Piccione Ruth, Gonzalez-Cid Yolanda, Pastor Luis, DeFelipe Javier, García-Lorenzo Marcos. A Deep Learning-Based Workflow for Dendritic Spine Segmentation. *Frontiers in Neuroanatomy*, vol. 16, 2022. <https://www.frontiersin.org/article/10.3389/fnana.2022.817903>. ISSN=1662-5129. DOI 10.3389/fnana.2022.817903.
- Leoste, J.; Jögi, L.; Öun, T.; Pastor, L.; San Martín López, J.; Grauberg, I. "Perceptions about the Future of Integrating Emerging Technologies into Higher Education—The Case of Robotics with Artificial Intelligence". *Computers*, 2021, vol. 10, no 9, p. 110. https://doi.org/10.3390/computers10090110_Q2, (*Computer Networks and Communications*, <https://www.scimagojr.com/journalsearch.php?q=21100886391&tip=sid>)
- Leoste, J; Tammemäe, T; Eskla G; San Martín, J; Pastor, L; Peribáñez, E "Bee-Bot educational robot as a means of developing social skills among children with autism-spectrum disorders". 12th International Conference on Robotics in Education. 28-04 / 30-04 2021
- Velasco, I; Toharia, P; Benavides-Piccione, R; Fernaud, I; Brito, J P; Mata, S; DeFelipe, J; Pastor, L; Bayona, S "Neuronize v2: bridging the gap between existing proprietary tools to optimize neuroscientific workflows". *Frontiers in Neuroanatomy*, 2020
- Galindo, S.; Toharia, P.; Robles, O. D.; Ros, E.; Pastor, L.; Garrido, J. "Simulation, visualization and analysis tools for pattern recognition assessment with spiking neuronal networks". *Neurocomputing*, Vol. 400, 2020
- José Juan Aliaga, Susana Mata, Ruth Benavides-Piccione, Javier DeFelipe, Luis Pastor. "A method for the symbolic representation of neurons". *Frontiers in Neuroanatomy*, vol. 12, 2018
- Reconstruction and Simulation of Neocortical Microcircuitry. Henry Markram *et al* (82 authors). *Cell*, vol. 163, pages 456–492, October 8, 2015. Elsevier Inc. <http://dx.doi.org/10.1016/j.cell.2015.09.029>. Q1 (2/289, Biochemistry and Molecular Biology). FI: 28.710
- L. Pastor, J. L. Bosque. An efficiency and scalability model for heterogeneous clusters. *IEEE International Conference on Cluster Computing (Cluster 2001)*. Newport Beach, California, EEUU, 8-11 oct. 2001