Richard R. Carrillo

Short Curriculum Vitae (2021)

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PROFESSIONAL EXPERIENCE

2021 - current	Assistant professor in the in the Department of Computer Architecture and Technology of the University of Granada (Spain)
2018 - 2021	Postdoctoral research fellow at University of Granada (Spain) Project: Reverse-engineering the cerebellum for adaptive robot control (PI)
2017 - 2018	Postdoctoral research fellow at Institut de la Vision, University Pierre and Marie Curie, Paris (France)
2013 - 2017	Postdoctoral research fellow at University of Granada (Spain) Projects: • NEUROPACT (Spanish) • Human Brain Project (EU FET Flagship) • Plat-EEG (Andalusian) • PYR-2014-6 (University of Granada) (PI) • REALNET (EU 7th FP) • TOMSY (EU 7th FP)
2010 - 2012	Postdoctoral research fellow at University of Almeria (Spain) Grant "Juan de la Cierva" awarded by Spanish Ministry
2002 - 2009	Research assistant at University of Granada (Spain) Projects: • SENSOPAC (EU 6th FP) • SpikeFORCE (EU 5th FP)

UNIVERSITY EDUCATION

2008/2009	PhD , University of Cagliari (Italy) / University of Granada (Spain) Thesis title: Efficient simulation scheme for spiking neural networks / Simulación eficiente de estructuras neuronales basadas en el sistema nervioso.
2002	Ingeniería informática (Master of Science in Computer Science), University of Granada (Spain)
2000	Ingeniería técnica en informática de sistemas (Bachelor of Information Technology), University of Granada (Spain)

SUPERVISION OF STUDENTS

2013	Co-direction of PhD : Niceto R. Luque Sola Thesis title: <i>Bio-Inspired Robotic Control Schemes Using Biologically Plausible Neural</i> .
2011	Co-direction of PhD : Jesús A. Garrido Alcázar Thesis title: Simulation of biological neuronal structures. Design and functional study of the cerebellum.

AWARDS	
2002	Second prize (and special prize given by the NECSO company) Conferred by First edition of the Spanish national contest "Arquímedes"
2003	Best undergraduate degree dissertation Conferred by School of Informatics and Telecommunications Engineering (Granada)
2003	Teaching innovation project: Hardware/software experimentation environment based on a microrobot Conferred by University of Granada
2005	Better paper/poster Conferred by International Work-Conference on Artificial Neural Networks 2005
2007	Contribution to the external prestige of the School of Informatics and Telecommunications Engineering Conferred by School of Informatics and Telecommunications Engineering (Granada)
2001	Best academic record in Bachelor of Information Technology Conferred by School of Informatics and Telecommunications Engineering (Granada)

PUBLICATIONS

- 23 journal publications: 22 in JCR (12 ranked Q1, 8 ranked Q2 and 2 ranked Q3)
- 28 contributions to congress (21 international and 8 Spanish conferences). Selected journal publications:
- I. Abadía, F. Naveros, E. Ros, R.R. Carrillo, N.R. Luque
 A cerebellar-based solution to the nondeterministic time delay problem in robotic control, Science Robotics, 6(58) (2021)
- N.R. Luque, F. Naveros, R.R. Carrillo, E. Ros, A. Arleo
 Spike burst-pause dynamics of Purkinje cells regulate sensorimotor adaptation, PLOS Computational Biology, 15(3), (2019)
- R.R. Carrillo, F. Naveros, E. Ros, N.R. Luque
 A Metric for Evaluating Neural Input Representation in Supervised Learning
 Networks, IEEE Transactions on Neural Networks, 22(8), (2011) pp. 1321-1328
- R.R. Carrillo, E. Ros, S. Tolu, T. Nieus, E. D'Angelo
 Event-driven simulation of cerebellar granule cells, Biosystems, 94(1-2), (2008) pp. 10-17
- R.R. Carrillo, E. Ros, C. Boucheny, O. J-M D Coenen
 A real-time spiking cerebellum model for learning robot control, *Biosystems*, 94(1-2), (2008) pp. 18-27
- R.R. Carrillo, E. Ros, B. Barbourb, C. Boucheny, O. Coenen
 Event-driven simulation of neural population synchronization facilitated by electrical coupling, *Biosystems*, 87(2--3), (2007) pp. 275-280
- E. Ros, R. Carrillo, E. M. Ortigosa, B. Barbour, R. Agís
 Event-Driven Simulation Scheme for Spiking Neural Networks Using Lookup
 Tables to Characterize Neuronal Dynamics, Neural Computation, 18(12), (2006) pp. 2959-2993