

# FÃ©lix de la Paz LÃ³pez

## List of Publications by Year in descending order

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46  
papers

307  
citations

1306789

7  
h-index

940134

16  
g-index

60  
all docs

60  
docs citations

60  
times ranked

280  
citing authors

#	ARTICLE	IF	CITATIONS
1	Q-CHAT-NAO: A robotic approach to autism screening in toddlers. Journal of Biomedical Informatics, 2021, 118, 103797.	2.5	9
2	Frequency variation analysis in neuronal cultures for stimulus response characterization. Neural Computing and Applications, 2020, 32, 5027-5032.	3.2	0
3	Artificial intelligence within the interplay between natural and artificial computation: Advances in data science, trends and applications. Neurocomputing, 2020, 410, 237-270.	3.5	121
4	Supporting Teachers to Monitor Student's Learning Progress in an Educational Environment With Robotics Activities. IEEE Access, 2020, 8, 48620-48631.	2.6	11
5	FER in Primary School Children for Affective Robot Tutors. Lecture Notes in Computer Science, 2019, , 461-471.	1.0	4
6	IDEE: A Visual Programming Environment to Teach Physics Through Robotics in Secondary Schools. Advances in Intelligent Systems and Computing, 2019, , 241-246.	0.5	0
7	Speech gestural interpretation by applying word representations in robotics. Integrated Computer-Aided Engineering, 2018, 26, 97-109.	2.5	11
8	Exploring the Physiological Basis of Emotional HRI Using a BCI Interface. Lecture Notes in Computer Science, 2017, , 274-285.	1.0	1
9	Smart Gesture Selection with Word Embeddings Applied to NAO Robot. Lecture Notes in Computer Science, 2017, , 167-179.	1.0	1
10	ARTIE: An Integrated Environment for the Development of Affective Robot Tutors. Frontiers in Computational Neuroscience, 2016, 10, 77.	1.2	10
11	IWINAC 2013 special section: editorial on intelligent systems for neural disorders and emotional state identification. Expert Systems, 2015, 32, 674-675.	2.9	0
12	Artificial Computation in Biology and Medicine. Lecture Notes in Computer Science, 2015, , .	1.0	3
13	Towards Robot Localization Using Bluetooth Low Energy Beacons RSSI Measures. Lecture Notes in Computer Science, 2015, , 222-231.	1.0	1
14	Induced functional connectivity in hippocampal cultures using Hebbian electrical stimulation. Neurocomputing, 2015, 151, 4-10.	3.5	1
15	Consistent robot localization using Polar Scan Matching based on Kalman Segmentation. Robotics and Autonomous Systems, 2015, 63, 219-225.	3.0	6
16	Training biological neural cultures: Towards Hebbian learning. Neurocomputing, 2013, 114, 3-8.	3.5	10
17	Social and collaborative robotics. Robotics and Autonomous Systems, 2013, 61, 659-660.	3.0	5
18	Auction based method for graphic-like maps inspection by multi-robot system in simulated and real environments. Robotics and Autonomous Systems, 2013, 61, 676-681.	3.0	1

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19	Neural Spike Activation in Hippocampal Cultures Using Hebbian Electrical Stimulation. Lecture Notes in Computer Science, 2013, , 37-47.	1.0	1
20	Response calibration in neuroblastoma cultures over multielectrode array. Neurocomputing, 2012, 75, 98-105.	3.5	1
21	A biological neuroprocessor for robotic guidance using a center of area method. Neurocomputing, 2011, 74, 1229-1236.	3.5	5
22	Inspection method based on multi-agent auction for graph-like maps. , 2011, , .		1
23	Human neuroblastoma cultures for biorobotics. , 2011, 2011, 6672-5.		2
24	Tools for Controlled Experiments and Calibration on Living Tissues Cultures. Lecture Notes in Computer Science, 2011, , 472-481.	1.0	0
25	Study of a Multi-Robot Collaborative Task through Reinforcement Learning. Lecture Notes in Computer Science, 2011, , 185-191.	1.0	0
26	Selective Method Based on Auctions for Map Inspection by Robotic Teams. Lecture Notes in Computer Science, 2011, , 175-184.	1.0	3
27	Improving Area Center Robot Navigation Using a Novel Range Scan Segmentation Method. Lecture Notes in Computer Science, 2011, , 233-245.	1.0	4
28	Intelligent robotics and neuroscience. Robotics and Autonomous Systems, 2010, 58, 1221-1222.	3.0	4
29	A client-server architecture for remotely controlling a robot using a closed-loop system with a biological neuroprocessor. Robotics and Autonomous Systems, 2010, 58, 1223-1230.	3.0	7
30	An open-source real-time system for remote robotic control using Neuroblastoma cultures. , 2010, , .		2
31	Reactive navigation in real environments using partial center of area method. Robotics and Autonomous Systems, 2010, 58, 1231-1237.	3.0	20
32	A Hybrid Robotic Control System Using Neuroblastoma Cultures. Lecture Notes in Computer Science, 2010, , 245-253.	1.0	3
33	LEARNING IN BIOLOGICAL NEUROPROCESSORS USING A CENTER OF AREA METHOD. , 2010, , .		0
34	Discretized ISO-learning neural network for obstacle avoidance in reactive robot controllers. Neurocomputing, 2009, 72, 861-870.	3.5	5
35	Mathematical Foundations of the Center of Area Method for Robot Navigation. Lecture Notes in Computer Science, 2009, , 419-428.	1.0	1
36	The centre of area method as a basic mechanism for representation and navigation. Robotics and Autonomous Systems, 2007, 55, 860-869.	3.0	8

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37	Discretization of ISO-Learning and ICO-Learning to Be Included into Reactive Neural Networks for a Robotics Simulator. Lecture Notes in Computer Science, 2007, , 367-378.	1.0	1
38	A Robotics Inspired Method of Modeling Accessible Open Space to Help Blind People in the Orientation and Traveling Tasks. Lecture Notes in Computer Science, 2005, , 405-415.	1.0	2
39	The Knowledge Engineering approach to Autonomous Robotics. Lecture Notes in Computer Science, 2003, , 161-168.	1.0	1
40	An Analytical Method for Decomposing the External Environment Representation Task for a Robot with Restricted Sensory Information. Studies in Fuzziness and Soft Computing, 2003, , 189-215.	0.6	4
41	Topological Maps for Robot™s Navigation: A Conceptual Approach. Lecture Notes in Computer Science, 2001, , 459-467.	1.0	3
42	On virtual sensory coding: An analytical model of the endogenous representation. Lecture Notes in Computer Science, 1999, , 526-539.	1.0	6
43	Functional connectivity graphs in hippocampal cultures using tetanic stimulation for real time robotic control. Frontiers in Neuroscience, 0, 10, .	1.4	1
44	Spike Synchronization in Hippocampal Cultures Using Hebbian Learning. Frontiers in Neuroinformatics, 0, 7, .	1.3	0
45	Analysis of stable neural activity patterns generation and classification in neural cultures for real time robotic control. Frontiers in Cellular Neuroscience, 0, 12, .	1.8	0
46	Towards a deep learning model of information encoding and decoding of in vitro neuronal cultures responses to electrical stimulation. Frontiers in Cellular Neuroscience, 0, 12, .	1.8	1