

# Gerardo Gabriel Acosta Lazo

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,050  
citations

516215

16  
h-index

454577

30  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive low-level control of autonomous underwater vehicles using deep reinforcement learning. <i>Robotics and Autonomous Systems</i> , 2018, 107, 71-86.	3.0	116
2	A current monitoring system for diagnosing electrical failures in induction motors. <i>Mechanical Systems and Signal Processing</i> , 2006, 20, 953-965.	4.4	98
3	Synthesis and characterization of polyaniline and polyaniline " Carbon nanotubes nanostructures for electrochemical supercapacitors. <i>Journal of Power Sources</i> , 2014, 245, 475-481.	4.0	90
4	An adaptive deep reinforcement learning approach for MIMO PID control of mobile robots. <i>ISA Transactions</i> , 2020, 102, 280-294.	3.1	75
5	Incremental Q -learning strategy for adaptive PID control of mobile robots. <i>Expert Systems With Applications</i> , 2017, 80, 183-199.	4.4	74
6	Misalignment detection in induction motors with flexible coupling by means of estimated torque analysis and MCSA. <i>Mechanical Systems and Signal Processing</i> , 2016, 80, 570-581.	4.4	70
7	Flexible symmetric and asymmetric supercapacitors based in nanocomposites of carbon cloth/polyaniline - carbon nanotubes. <i>Energy</i> , 2017, 130, 22-28.	4.5	64
8	Accumulated CA"CFAR Process in 2-D for Online Object Detection From Sidescan Sonar Data. <i>IEEE Journal of Oceanic Engineering</i> , 2015, 40, 558-569.	2.1	61
9	Double Q-PID algorithm for mobile robot control. <i>Expert Systems With Applications</i> , 2019, 137, 292-307.	4.4	38
10	Polyaniline and polyaniline-carbon black nanostructures as electrochemical capacitor electrode materials. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8582-8589.	3.8	37
11	Median Filtering: A New Insight. <i>Journal of Mathematical Imaging and Vision</i> , 2017, 58, 130-146.	0.8	33
12	Behavioral control through evolutionary neurocontrollers for autonomous mobile robot navigation. <i>Robotics and Autonomous Systems</i> , 2009, 57, 411-419.	3.0	27
13	Genetic algorithms and fuzzy control: a practical synergism for industrial applications. <i>Computers in Industry</i> , 2003, 52, 183-195.	5.7	24
14	AUV Position Tracking Control Using End-to-End Deep Reinforcement Learning. , 2018, , .		24
15	Fault Detection and Diagnosis Techniques in Induction Electrical Machines. <i>IEEE Latin America Transactions</i> , 2007, 5, 41-49.	1.2	23
16	Evaluation of an Efficient Approach for Target Tracking from Acoustic Imagery for the Perception System of an Autonomous Underwater Vehicle. <i>International Journal of Advanced Robotic Systems</i> , 2014, 11, 24.	1.3	19
17	Energy storage in symmetric and asymmetric supercapacitors based in carbon cloth/polyaniline-carbon black nanocomposites. <i>International Journal of Energy Research</i> , 2015, 39, 2053-2061.	2.2	19
18	From network-to-antibody robustness in a bio-inspired immune system. <i>BioSystems</i> , 2011, 104, 109-117.	0.9	16

#	ARTICLE	IF	CITATIONS
19	On-line policy learning and adaptation for real-time personalization of an artificial pancreas. Expert Systems With Applications, 2015, 42, 2234-2255.	4.4	15
20	Artificial potential fields for the obstacles avoidance system of an AUV using a mechanical scanning sonar. , 2016, , .		15
21	A Framework for Acoustic Segmentation Using Order Statistic-Constant False Alarm Rate in Two Dimensions From Sidescan Sonar Data. IEEE Journal of Oceanic Engineering, 2018, 43, 735-748.	2.1	13
22	Knowledge based process control supervision and diagnosis: the AEROLID approach. Expert Systems With Applications, 1998, 14, 371-383.	4.4	12
23	Basic tasks for knowledge-based supervision in process control. Engineering Applications of Artificial Intelligence, 2001, 14, 441-455.	4.3	12
24	How simple autonomous decisions evolve into robust behaviours?: A review from neurorobotics, cognitive, self-organized and artificial immune systems fields. BioSystems, 2014, 124, 7-20.	0.9	11
25	Fault detection in gear box with induction motors: an experimental study. IEEE Latin America Transactions, 2016, 14, 2726-2731.	1.2	11
26	Comparison of a PID controller versus a LQG controller for an autonomous underwater vehicle. , 2016, , .		8
27	Nanoestructura de perovskita doble La <sub>2</sub> NiMnO <sub>6</sub> obtenido por ruta de citrato para supercapacitores. Revista Materia, 2018, 23, .	0.1	8
28	An expert PID controller uses refined ziegler and nichols rules and fuzzy logic ideas. Applied Intelligence, 1994, 4, 53-66.	3.3	7
29	OS-CFAR process in 2-D for object segmentation from Sidescan Sonar data. , 2015, , .		6
30	Improved response of an active load emulation system by using a fuzzy inference system. IEEE Latin America Transactions, 2005, 3, 60-73.	1.2	3
31	A Biologically Inspired Autonomous Robot Control Based on Behavioural Coordination in Evolutionary Robotics. , 2009, , 107-129.		3
32	Mosaic construction from side-scan sonar: A comparison of two approaches for beam interpolation. , 2015, , .		2
33	An Approach for Side Scan Sonar Acoustic Images Segmentation using Programmable Logic. IEEE Latin America Transactions, 2015, 13, 1478-1490.	1.2	2
34	GPS aided strapdown inertial navigation system for autonomous robotics applications. , 2017, , .		2
35	Obstacle detection system design for an autonomous surface vehicle using a mechanical scanning sonar. , 2017, , .		2
36	Navigation System for MACÁBOT an Autonomous Surface Vehicles Using GPS Aided Strapdown Inertial Navigation System. IEEE Latin America Transactions, 2019, 17, 1009-1019.	1.2	2

#	ARTICLE	IF	CITATIONS
37	Neural-net-based control of dynamical systems: A case study. Applied Intelligence, 1993, 3, 267-274.	3.3	1
38	Artificial immune system inspired behavior coordination for autonomous mobile robot trajectory generation. , 2010, , .		1
39	Low cost programmable FSK modem. , 2015, , .		1
40	Underwater acoustic channel model for shallow waters. , 2016, , .		1
41	Ictiobot-40 a low cost AUV platform for acoustic imaging surveying. , 2019, , .		1
42	A reinforcement learning control approach for underwater manipulation under position and torque constraints. , 2020, , .		1
43	Family Corner: Argentina Chapter Report. IEEE Computational Intelligence Magazine, 2008, 3, 15-17.	3.4	0
44	Reconocimiento autom&#x00E1;tico de especies utilizando procesamiento digital de im&#x00E1;genes ac&#x00FA;sticas. , 2014, , .		0
45	El filtro de mediana como alternativa novedosa en el suavizado de se&#x00F1;ales ac&#x00FA;sticas de sonar de barrido lateral. , 2014, , .		0
46	Fish length prediction from acoustic descriptors of Anchovy (Engraulis anchoita) schools. , 2015, , .		0
47	Modelado e identificaciÃ³n de vehÃculos mÃviles usando modelos de baja complejidad basados en datos. , 2016, , .		0
48	3rd IEEE/OES South American International symposium on oceanic engineering. , 2016, , .		0