Gerardo Gabriel Acosta Lazo

List of Publications by Year
in descending order

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	An adaptive deep reinforcement learning approach for MIMO PID control of mobile robots. ISA Transactions, 2020, 102, 280-294.	3.1	75
2	A reinforcement learning control approach for underwater manipulation under position and torque constraints. , 2020, , .		1
3	Double Q-PID algorithm for mobile robot control. Expert Systems With Applications, 2019, 137, 292-307.	4.4	38
4	Ictiobot-40 a low cost AUV platform for acoustic imaging surveying. , 2019, , .		1
5	Navigation System for MACÃBOT an Autonomous Surface Vehicles Using GPS Aided Strapdown Inertial Navigation System. IEEE Latin America Transactions, 2019, 17, 1009-1019.	1.2	2
6	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
7	AUV Position Tracking Control Using End-to-End Deep Reinforcement Learning. , 2018, , .		24
8	Nanoestructura de perovskita doble La2NiMnO6 obtenido por ruta de citrato para supercapacitores. Revista Materia, 2018, 23, .	0.1	8
9	Adaptive low-level control of autonomous underwater vehicles using deep reinforcement learning. Robotics and Autonomous Systems, 2018, 107, 71-86.	3.0	116
10	Incremental Q -learning strategy for adaptive PID control of mobile robots. Expert Systems With Applications, 2017, 80, 183-199.	4.4	74
11	Flexible symmetric and asymmetric supercapacitors based in nanocomposites of carbon cloth/polyaniline - carbon nanotubes. Energy, 2017, 130, 22-28.	4.5	64
12	Median Filtering: A New Insight. Journal of Mathematical Imaging and Vision, 2017, 58, 130-146.	0.8	33
13	GPS aided strapdown inertial navigation system for autonomous robotics applications. , 2017, , .		2
14	Obstacle detection system design for an autonomous surface vehicle using a mechanical scanning sonar. , 2017, , .		2
15	Comparison of a PID controller versus a LQG controller for an autonomous underwater vehicle. , 2016, , .		8
16	Modelado e identificaciÃ³n de vehÃculos mÃ³viles usando modelos de baja complejidad basados en datos. , 2016, , .		0
17	3rd IEEE/OES South American International symposium on oceanic engineering. , 2016, , .		0
18	Misalignment detection in induction motors with flexible coupling by means of estimated torque analysis and MCSA. Mechanical Systems and Signal Processing, 2016, 80, 570-581.	4.4	70

#	Article	IF	Citations
19	Fault detection in gear box with induction motors: an experimental study. IEEE Latin America Transactions, 2016, 14, 2726-2731.	1.2	11
20	Underwater acoustic channel model for shallow waters. , 2016, , .		1
21	Artificial potential fields for the obstacles avoidance system of an AUV using a mechanical scanning sonar. , 2016, , .		15
22	OS-CFAR process in 2-D for object segmentation from Sidescan Sonar data. , 2015, , .		6
23	Low cost programmable FSK modem. , 2015, , .		1
24	Mosaic construction from side-scan sonar: A comparison of two approaches for beam interpolation. , 2015, , .		2
25	Fish length prediction from acoustic descriptors of Anchovy (Engraulis anchoita) schools. , 2015, , .		0
26	Energy storage in symmetric and asymmetric supercapacitors based in carbon cloth/polyaniline-carbon black nanocomposites. International Journal of Energy Research, 2015, 39, 2053-2061.	2.2	19
27	An Approach for Side Scan Sonar Acoustic Images Segmentation using Programmable Logic. IEEE Latin America Transactions, 2015, 13, 1478-1490.	1.2	2
28	Accumulated CAâ€“CFAR Process in 2-D for Online Object Detection From Sidescan Sonar Data. IEEE Journal of Oceanic Engineering, 2015, 40, 558-569.	2.1	61
29	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
30	Evaluation of an Efficient Approach for Target Tracking from Acoustic Imagery for the Perception System of an Autonomous Underwater Vehicle. International Journal of Advanced Robotic Systems, 2014, 11, 24.	1.3	19
31	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
32	Polyaniline and polyaniline-carbon black nanostructures as electrochemical capacitor electrode materials. International Journal of Hydrogen Energy, 2014, 39, 8582-8589.	3.8	37
33	Reconocimiento automático de especies utilizando procesamiento digital de imágenes acústicas. , 2014, , .		0
34	El filtro de mediana como alternativa novedosa en el suavizado de señales acústicas de sonar de barrido lateral. , 2014, , .		0
35	Synthesis and characterization of polyaniline and polyaniline â€“ Carbon nanotubes nanostructures for electrochemical supercapacitors. Journal of Power Sources, 2014, 245, 475-481.	4.0	90
36	From network-to-antibody robustness in a bio-inspired immune system. BioSystems, 2011, 104, 109-117.	0.9	16

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37	Artificial immune system inspired behavior coordination for autonomous mobile robot trajectory generation. , 2010, , .		1
38	Behavioral control through evolutionary neurocontrollers for autonomous mobile robot navigation. Robotics and Autonomous Systems, 2009, 57, 411-419.	3.0	27
39	A Biologically Inspired Autonomous Robot Control Based on Behavioural Coordination in Evolutionary Robotics. , 2009, , 107-129.		3
40	Family Corner: Argentina Chapter Report. IEEE Computational Intelligence Magazine, 2008, 3, 15-17.	3.4	0
41	Fault Detection and Diagnosis Techniques in Induction Electrical Machines. IEEE Latin America Transactions, 2007, 5, 41-49.	1.2	23
42	A current monitoring system for diagnosing electrical failures in induction motors. Mechanical Systems and Signal Processing, 2006, 20, 953-965.	4.4	98
43	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
44	Genetic algorithms and fuzzy control: a practical synergism for industrial applications. Computers in Industry, 2003, 52, 183-195.	5.7	24
45	Basic tasks for knowledge-based supervision in process control. Engineering Applications of Artificial Intelligence, 2001, 14, 441-455.	4.3	12
46	Knowledge based process control supervision and diagnosis: the AEROLID approach. Expert Systems With Applications, 1998, 14, 371-383.	4.4	12
47	An expert PID controller uses refined ziegler and nichols rules and fuzzy logic ideas. Applied Intelligence, 1994, 4, 53-66.	3.3	7
48	Neural-net-based control of dynamical systems: A case study. Applied Intelligence, 1993, 3, 267-274.	3.3	1