Oscar Fernando AvilÃ©s SÃ¡nchez

List of Publications by Year
in descending order

72 papers	155 citations	1477746 6 h-index	1281420 11 g-index
79 all docs	79 docs citations	79 times ranked	183 citing authors

#	Article	IF	Citations
1	Anthropomorphic robotic hands: a review. IngenierÃa Y Desarrollo, 2014, 32, 279-313.	0.0	30
2	Survey of biometric pattern recognition via machine learning techniques. Contemporary Engineering Sciences, 2018, 11, 1677-1694.	0.2	21
3	Effects of Presence and Challenge Variations on Emotional Engagement in Immersive Virtual Environments. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1109-1116.	2.7	16
4	A Custom EOG-Based HMI Using Neural Network Modeling to Real-Time for the Trajectory Tracking of a Manipulator Robot. Frontiers in Neurorobotics, 2020, 14, 578834.	1.6	9
5	ClasificaciÃ³n de lesiÃ³n en rodilla usando seÃ±ales de electromiografÃa superficial y goniometrÃa empleando redes neuronales. Ingenieria Y Universidad, 2015, 19, 51.	0.5	6
6	Dynamic Modeling and PID Control of an Underwater Robot Based on the Hardware-in-the-Loop Method. International Review of Mechanical Engineering, 2016, 10, 482.	0.1	6
7	Simulation of a Mobile Manipulator on Webots. International Journal of Online Engineering, 2018, 14, 90.	0.5	5
8	AnÃ¡lisis cinemÃ¡tico y diseÃ±o de un mecanismo de cuatro barras para falange proximal de dedo antropomÃ³rfico. Ciencia E IngenierÃa Neogranadina, 2010, 20, 45.	0.1	5
9	AnÃ¡lisis de la implementaciÃ³n de un controlador difuso sobre diferentes arquitecturas de hardware. Ciencia E IngenierÃa Neogranadina, 2013, 23, 77.	0.1	5
10	Leading presence-based strategies to manipulate user experience in virtual reality environments. Virtual Reality, 2022, 26, 1507-1518.	4.1	5
11	Modeling a Microgrid that Integrates Renewable Energies in IEC 61850 - 7 - 420 and IEC 61400 - 25 - 3. Journal of Engineering Science and Technology Review, 2018, 11, 174-179.	0.2	4
12	Dynamic traffic light controller using machine vision and optimization algorithms. , 2012, , .		3
13	Technology in Locomotion and Domotic Control for Quadriplegic. , 2013, , .		3
14	Analysis of Autoregressive Predictive Models and Artificial Neural Networks for Irradiance Estimation. Indian Journal of Science and Technology, 2016, 9, .	0.5	3
15	Design of a Personal Communication Device, Based in EEG Signals. International Journal on Communications Antenna and Propagation, 2017, 7, 88.	0.2	3
16	Remote Lab for Robotics Applications. International Journal of Online Engineering, 2018, 14, 186.	0.5	2
17	A simplified method for online extraction of skin conductance features: A pilot study on an immersive virtual-reality-based motor task. , 2020, 2020, 3747-3750.		2
18	DetecciÃ³n de distracciÃ³n en conductores mediante tÃ©cnicas de visiÃ³n de mÃ¡quina. Ingenieria Y Competitividad, 2014, 16, 55-63.	0.1	2

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19	Hardware in Loop of a Generalized Predictive Controller for a Micro Grid DC System of Renewable Energy Sources. International Journal of Engineering Transactions B: Applications, 2018, 31, .	0.6	2
20	Control de pH para planta de tratamiento de aguas residuales. Ciencia E IngenierÃa Neogranadina, 0, 14, 86-95.	0.1	2
21	Genetic Algorithm Optimization for DC Micro Grid Design, a Case of Study. International Review of Electrical Engineering, 2017, 12, 318.	0.1	2
22	Hardware and software architecture of a mobile robot with anthropomorphic arm. , 2010, , .		1
23	Design and construction of a mobile type rover robotics platform. , 2011, , .		1
24	Multi-tank fuzzy level controller system using system. , 2012, , .		1
25	Hybrid Force-Position Control Three Fingers End Effector. Applied Mechanics and Materials, 2013, 346, 75-82.	0.2	1
26	A Hybrid Differential Flatness and Sliding Modes Controller for Dynamical Structural Testing on Lower Limp Prostheses. Applied Mechanics and Materials, 2015, 713-715, 777-780.	0.2	1
27	Differential Model for a Six-Weeled Robot (ACM1PT). Applied Mechanics and Materials, 2016, 823, 435-440.	0.2	1
28	Linear Control for Full Bridge Phase PWM Rectifier. Applied Mechanics and Materials, 0, 823, 453-458.	0.2	1
29	Design of Sliding Mode Based Differential Flatness Control of Leg-Wheel Hybrid Robot. Applied Mechanics and Materials, 2016, 835, 681-686.	0.2	1
30	FEA of Bioabsorbable Material to Repair Hand Fractures. Applied Mechanics and Materials, 0, 823, 173-178.	0.2	1
31	Concurrent design applied to the structural optimization of a wrist rehabilitation system. , 2017, , .		1
32	RGB-D training for convolutional neural network with final fuzzy layer for depth weighting. Contemporary Engineering Sciences, 2017, 10, 1419-1429.	0.2	1
33	Simulation of a microgrid for a non-interconnected zone that integrates renewable energies. International Journal of Electrical and Computer Engineering, 2021, 11, 201.	0.5	1
34	Design of an Impulsion Prosthetic System for Prosthetic Foot. IFMBE Proceedings, 2015, , 964-967.	0.2	1
35	MÃ³dulo de adquisiciÃ³n para prueba de esfuerzo cardiovascular (MAPEC). Ciencia E IngenierÃa Neogranadina, 0, 10, 119-127.	0.1	1
36	IdentificaciÃ³n de parÃ¡metros de sistemas dinÃ¡micos. Ciencia E IngenierÃa Neogranadina, 2002, 12, 41-51.	0.1	1

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37	Desarrollo de interfaces para la detecciÃ³n del habla sub-vocal. Tecnura, 2013, 17, 138.	0.1	1
38	Design of a three-finger end effector for optimal grip. DYNA (Colombia), 2014, 81, 93.	0.2	1
39	Virtual Based Antropomorhic Gripper application for Automation Grasping Tasks. , 2014, , .		0
40	Development of Software of Climate Analysis for Generation the Energy with Wind Turbine. Applied Mechanics and Materials, 2014, 700, 20-23.	0.2	0
41	Development of Software for Analyzing of Solar Irradiance and Sizing of Stand-Alone PV Power Systems. Applied Mechanics and Materials, 2014, 700, 16-19.	0.2	0
42	Gasification of Biomass in a Fixed Bed Reactor. Advanced Materials Research, 2014, 875-877, 1831-1836.	0.3	0
43	Pruebas de estanqueidad en envases de tereftalato de polietileno basado en mÃ¡quina de soporte vectorial. Ingeniare, 2015, 23, 630-637.	0.1	0
44	Design and Implementation of Mechatronic Prosthesis for Amputees with Trans-Humeral Amputation. Applied Mechanics and Materials, 0, 713-715, 781-784.	0.2	0
45	Autonomous Car for Mining 1Â° ProtoType â€œACM1PTâ€• Applied Mechanics and Materials, 2015, 713-715, 901-904.	0.2	0
46	Tool to Perform Software-in-the-Loop through Robot Operating System. Applied Mechanics and Materials, 2015, 713-715, 2391-2394.	0.2	0
47	Grasping Optimization in a Three Fingers Final Effector. Applied Mechanics and Materials, 0, 713-715, 919-922.	0.2	0
48	Mechanical Design of a Self-Balancing Platform for Transporting Purposes. Applied Mechanics and Materials, 0, 713-715, 785-788.	0.2	0
49	Object Tracking System Based on Artificial Vision Algorithms. Applied Mechanics and Materials, 2015, 713-715, 420-423.	0.2	0
50	Design and Implementation of a Neural Network Applied to the Maximum Power Point Tracking of a Solar Panel. Applied Mechanics and Materials, 2016, 823, 383-388.	0.2	0
51	Adaptive Control for Solar Photovoltaic Tracking System. Applied Mechanics and Materials, 0, 823, 377-382.	0.2	0
52	Ackerman Model for a Six-Wheeled Robot (ACM1PT). Applied Mechanics and Materials, 2016, 823, 441-446.	0.2	0
53	Process Design for Autonomous Car Mining 1st Prototype â€œACM1PTâ€•to Help on Exploration Task on Outdoor Environments. Applied Mechanics and Materials, 2016, 823, 447-452.	0.2	0
54	Optimal design of a mechanism for children foot guiding. IFMBE Proceedings, 2017, , 717-720.	0.2	0

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55	Sliding Modes for a Manipulator Arm of 4 Degrees of Freedom. International Journal of Online Engineering, 2017, 13, 114.	0.5	0
56	Humanoid Robot Cooperative System by Machine Vision. International Journal of Online Engineering, 2017, 13, 162.	0.5	0
57	Real Time System Design for a Mobile Manipulator. International Journal of Online and Biomedical Engineering, 2018, 14, 126.	0.9	0
58	Electronic Architecture for a Mobile Manipulator. International Journal of Online Engineering, 2018, 14, 133.	0.5	0
59	DomÃ³tica: Control de instalaciones con PC. Ciencia E IngenierÃa Neogranadina, 0, 10, 85-94.	0.1	0
60	IdentificaciÃ³n de sistemas. Ciencia E IngenierÃa Neogranadina, 0, 11, 75-79.	0.1	0
61	Control de un manipulador antropomÃ³rfico por medio de un dispositivo de inmersiÃ³n. Ciencia E IngenierÃa Neogranadina, 0, 14, 76-84.	0.1	0
62	DiseÃ±o y Control de un Exoesqueleto para RehabilitaciÃ³n Motora en Miembro Superior. IFMBE Proceedings, 2007, , 758-761.	0.2	0
63	Control de Temperatura para un Sistema de Tanques Acoplados utilizando AutÃ³matas Finitos. ITECKNE InnovaciÃ³n E InvestigaciÃ³n En IngenierÃa, 2012, 9, .	0.0	0
64	Design of a Testing Bench for Biomaterials Characterization According to Their Performance Under Tribocorrosion. International Review of Mechanical Engineering, 2015, 9, 391.	0.1	0
65	Development of a Human Hand-Based Anthropomorphic Gripper for Prehensiletasks. International Review of Mechanical Engineering, 2015, 9, 484.	0.1	0
66	Development of a Toolbox in Matlab for Designing Discrete and Continuous-Time Linear Controllers with System Control Application Using Software in the Loop. International Review of Automatic Control, 2015, 8, 369.	0.2	0
67	Review of Connector Docking Systems for Modular Robotic Systems. International Review of Mechanical Engineering, 2016, 10, 81.	0.1	0
68	Embedded System for Front Differential Drive of Rotational and Translational Vehicle Position Control. International Review of Automatic Control, 2017, 10, 325.	0.2	0
69	DiseÃ±o y construcciÃ³n de un dedo para grippers robÃ³tico. Revista Colombiana De RehabilitaciÃ³n, 2017, 6, 49.	0.1	0
70	Red neuronal convolucional para discriminar herramientas en robÃ³tica asistencial. VisiÃ³n ElectrÃ³nica, 2018, 12, 208-214.	0.1	0
71	Two DoF Robotic Platform for Balance Rehabilitation Tasks. Mechanisms and Machine Science, 2021, , 332-340.	0.3	0
72	Kinematic model of bar mechanism for ectrodactyly applications. Acta Scientiarum - Technology, 0, 44, e56069.	0.4	0