

# Oscar Fernando AvilÃ©s SÃ¡nchez

## List of Publications by Year in descending order

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72  
papers

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citations

1477746

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h-index

1281420

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g-index

79  
all docs

79  
docs citations

79  
times ranked

183  
citing authors

#	ARTICLE	IF	CITATIONS
1	Leading presence-based strategies to manipulate user experience in virtual reality environments. <i>Virtual Reality</i> , 2022, 26, 1507-1518.	4.1	5
2	Simulation of a microgrid for a non-interconnected zone that integrates renewable energies. <i>International Journal of Electrical and Computer Engineering</i> , 2021, 11, 201.	0.5	1
3	Two DoF Robotic Platform for Balance Rehabilitation Tasks. <i>Mechanisms and Machine Science</i> , 2021, , 332-340.	0.3	0
4	A Custom EOG-Based HMI Using Neural Network Modeling to Real-Time for the Trajectory Tracking of a Manipulator Robot. <i>Frontiers in Neurorobotics</i> , 2020, 14, 578834.	1.6	9
5	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
6	Effects of Presence and Challenge Variations on Emotional Engagement in Immersive Virtual Environments. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 1109-1116.	2.7	16
7	Real Time System Design for a Mobile Manipulator. <i>International Journal of Online and Biomedical Engineering</i> , 2018, 14, 126.	0.9	0
8	Remote Lab for Robotics Applications. <i>International Journal of Online Engineering</i> , 2018, 14, 186.	0.5	2
9	Electronic Architecture for a Mobile Manipulator. <i>International Journal of Online Engineering</i> , 2018, 14, 133.	0.5	0
10	Survey of biometric pattern recognition via machine learning techniques. <i>Contemporary Engineering Sciences</i> , 2018, 11, 1677-1694.	0.2	21
11	Simulation of a Mobile Manipulator on Webots. <i>International Journal of Online Engineering</i> , 2018, 14, 90.	0.5	5
12	Hardware in Loop of a Generalized Predictive Controller for a Micro Grid DC System of Renewable Energy Sources. <i>International Journal of Engineering Transactions B: Applications</i> , 2018, 31, .	0.6	2
13	Modeling a Microgrid that Integrates Renewable Energies in IEC 61850 - 7 - 420 and IEC 61400 - 25 - 3. <i>Journal of Engineering Science and Technology Review</i> , 2018, 11, 174-179.	0.2	4
14	Red neuronal convolucional para discriminar herramientas en robÃ³tica asistencial. <i>VisiÃ³n ElectrÃ³nica</i> , 2018, 12, 208-214.	0.1	0
15	Optimal design of a mechanism for children foot guiding. <i>IFMBE Proceedings</i> , 2017, , 717-720.	0.2	0
16	Concurrent design applied to the structural optimization of a wrist rehabilitation system. , 2017, , .		1
17	Sliding Modes for a Manipulator Arm of 4 Degrees of Freedom. <i>International Journal of Online Engineering</i> , 2017, 13, 114.	0.5	0
18	RGB-D training for convolutional neural network with final fuzzy layer for depth weighting. <i>Contemporary Engineering Sciences</i> , 2017, 10, 1419-1429.	0.2	1

#	ARTICLE	IF	CITATIONS
19	Humanoid Robot Cooperative System by Machine Vision. International Journal of Online Engineering, 2017, 13, 162.	0.5	0
20	Design of a Personal Communication Device, Based in EEG Signals. International Journal on Communications Antenna and Propagation, 2017, 7, 88.	0.2	3
21	Embedded System for Front Differential Drive of Rotational and Translational Vehicle Position Control. International Review of Automatic Control, 2017, 10, 325.	0.2	0
22	Genetic Algorithm Optimization for DC Micro Grid Design, a Case of Study. International Review of Electrical Engineering, 2017, 12, 318.	0.1	2
23	Diseño y construcción de un dedo para grippers robótico. Revista Colombiana De Rehabilitación, 2017, 6, 49.	0.1	0
24	Analysis of Autoregressive Predictive Models and Artificial Neural Networks for Irradiance Estimation. Indian Journal of Science and Technology, 2016, 9, .	0.5	3
25	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
26	Differential Model for a Six-Wheeled Robot (ACM1PT). Applied Mechanics and Materials, 2016, 823, 435-440.	0.2	1
27	Design of Sliding Mode Based Differential Flatness Control of Leg-Wheel Hybrid Robot. Applied Mechanics and Materials, 2016, 835, 681-686.	0.2	1
28	Ackerman Model for a Six-Wheeled Robot (ACM1PT). Applied Mechanics and Materials, 2016, 823, 441-446.	0.2	0
29	Process Design for Autonomous Car Mining 1st Prototype "ACM1PT" to Help on Exploration Task on Outdoor Environments. Applied Mechanics and Materials, 2016, 823, 447-452.	0.2	0
30	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
31	Review of Connector Docking Systems for Modular Robotic Systems. International Review of Mechanical Engineering, 2016, 10, 81.	0.1	0
32	Clasificación de lesión en rodilla usando señales de electromiografía superficial y goniometría empleando redes neuronales. Ingeniería Y Universidad, 2015, 19, 51.	0.5	6
33	Pruebas de estanqueidad en envases de tereftalato de polietileno basado en máquina de soporte vectorial. Inginiere, 2015, 23, 630-637.	0.1	0
34	Autonomous Car for Mining 1 <sup>o</sup> ProtoType "ACM1PT". Applied Mechanics and Materials, 2015, 713-715, 901-904.	0.2	0
35	Tool to Perform Software-in-the-Loop through Robot Operating System. Applied Mechanics and Materials, 2015, 713-715, 2391-2394.	0.2	0
36	A Hybrid Differential Flatness and Sliding Modes Controller for Dynamical Structural Testing on Lower Limb Prostheses. Applied Mechanics and Materials, 2015, 713-715, 777-780.	0.2	1

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37	Object Tracking System Based on Artificial Vision Algorithms. Applied Mechanics and Materials, 2015, 713-715, 420-423.	0.2	0
38	Design of an Impulsion Prosthetic System for Prosthetic Foot. IFMBE Proceedings, 2015, , 964-967.	0.2	1
39	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
40	Development of a Human Hand-Based Anthropomorphic Gripper for Prehensile tasks. International Review of Mechanical Engineering, 2015, 9, 484.	0.1	0
41	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
42	Anthropomorphic robotic hands: a review. IngenierÍA Y Desarrollo, 2014, 32, 279-313.	0.0	30
43	Virtual Based Antropomoric Gripper application for Automation Grasping Tasks. , 2014, , .		0
44	Development of Software of Climate Analysis for Generation the Energy with Wind Turbine. Applied Mechanics and Materials, 2014, 700, 20-23.	0.2	0
45	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
46	Gasification of Biomass in a Fixed Bed Reactor. Advanced Materials Research, 2014, 875-877, 1831-1836.	0.3	0
47	Detecci3n de distracci3n en conductores mediante t3cnicas de visi3n de m3quina. Ingenieria Y Competitividad, 2014, 16, 55-63.	0.1	2
48	Design of a three-finger end effector for optimal grip. DYNA (Colombia), 2014, 81, 93.	0.2	1
49	Technology in Locomotion and Domotic Control for Quadriplegic. , 2013, , .		3
50	Hybrid Force-Position Control Three Fingers End Effector. Applied Mechanics and Materials, 2013, 346, 75-82.	0.2	1
51	An3lisis de la implementaci3n de un controlador difuso sobre diferentes arquitecturas de hardware. Ciencia E IngenierÍA Neogranadina, 2013, 23, 77.	0.1	5
52	Desarrollo de interfaces para la detecci3n del habla sub-vocal. Tecnura, 2013, 17, 138.	0.1	1
53	Dynamic traffic light controller using machine vision and optimization algorithms. , 2012, , .		3
54	Multi-tank fuzzy level controller system using system. , 2012, , .		1

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55	Control de Temperatura para un Sistema de Tanques Acoplados utilizando Autómatas Finitos. ITECKNE Innovación E Investigación En Ingeniería, 2012, 9, .	0.0	0
56	Design and construction of a mobile type rover robotics platform. , 2011, , .		1
57	Hardware and software architecture of a mobile robot with anthropomorphic arm. , 2010, , .		1
58	Análisis cinemático y diseño de un mecanismo de cuatro barras para falange proximal de dedo antropomórfico. Ciencia E Ingeniería Neogranadina, 2010, 20, 45.	0.1	5
59	Diseño y Control de un Exoesqueleto para Rehabilitación Motora en Miembro Superior. IFMBE Proceedings, 2007, , 758-761.	0.2	0
60	Identificación de parámetros de sistemas dinámicos. Ciencia E Ingeniería Neogranadina, 2002, 12, 41-51.	0.1	1
61	Design and Implementation of Mechatronic Prosthesis for Amputees with Trans-Humeral Amputation. Applied Mechanics and Materials, 0, 713-715, 781-784.	0.2	0
62	Grasping Optimization in a Three Fingers Final Effector. Applied Mechanics and Materials, 0, 713-715, 919-922.	0.2	0
63	Mechanical Design of a Self-Balancing Platform for Transporting Purposes. Applied Mechanics and Materials, 0, 713-715, 785-788.	0.2	0
64	Linear Control for Full Bridge Phase PWM Rectifier. Applied Mechanics and Materials, 0, 823, 453-458.	0.2	1
65	Adaptive Control for Solar Photovoltaic Tracking System. Applied Mechanics and Materials, 0, 823, 377-382.	0.2	0
66	FEA of Bioabsorbable Material to Repair Hand Fractures. Applied Mechanics and Materials, 0, 823, 173-178.	0.2	1
67	Doméstica: Control de instalaciones con PC. Ciencia E Ingeniería Neogranadina, 0, 10, 85-94.	0.1	0
68	Módulo de adquisición para prueba de esfuerzo cardiovascular (MAPEC). Ciencia E Ingeniería Neogranadina, 0, 10, 119-127.	0.1	1
69	Identificación de sistemas. Ciencia E Ingeniería Neogranadina, 0, 11, 75-79.	0.1	0
70	Control de un manipulador antropomórfico por medio de un dispositivo de inmersión. Ciencia E Ingeniería Neogranadina, 0, 14, 76-84.	0.1	0
71	Control de pH para planta de tratamiento de aguas residuales. Ciencia E Ingeniería Neogranadina, 0, 14, 86-95.	0.1	2
72	Kinematic model of bar mechanism for ectrodactyly applications. Acta Scientiarum - Technology, 0, 44, e56069.	0.4	0