

Juan-Carlos Fraile

List of Publications by Year in descending order

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25
papers

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citations

1163117

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28
all docs

28
docs citations

28
times ranked

201
citing authors

#	ARTICLE	IF	CITATIONS
1	RobHand: A Hand Exoskeleton With Real-Time EMG-Driven Embedded Control. Quantifying Hand Gesture Recognition Delays for Bilateral Rehabilitation. IEEE Access, 2021, 9, 137809-137823.	4.2	31
2	Capacitive Sensing for Non-Invasive Breathing and Heart Monitoring in Non-Restrained, Non-Sedated Laboratory Mice. Sensors, 2016, 16, 1052.	3.8	20
3	Dynamic Gesture Recognition Using a Smart Glove in Hand-Assisted Laparoscopic Surgery. Technologies, 2018, 6, 8.	5.1	20
4	Design and characterization of a lightweight underactuated RACA hand exoskeleton for neurorehabilitation. Robotics and Autonomous Systems, 2021, 143, 103828.	5.1	18
5	Smart Cable-Driven Camera Robotic Assistant. IEEE Transactions on Human-Machine Systems, 2018, 48, 183-196.	3.5	17
6	A Measurement Setup and Automated Calculation Method to Determine the Charge Injection Capacity of Implantable Microelectrodes. Sensors, 2018, 18, 4152.	3.8	16
7	Application of a Novel Measurement Setup for Characterization of Graphene Microelectrodes and a Comparative Study of Variables Influencing Charge Injection Limits of Implantable Microelectrodes. Sensors, 2019, 19, 2725.	3.8	11
8	Automatic gauze tracking in laparoscopic surgery using image texture analysis. Computer Methods and Programs in Biomedicine, 2020, 190, 105378.	4.7	9
9	Comparative analysis of collision-free path-planning methods for multi-manipulator systems. Robotica, 2006, 24, 711-726.	1.9	7
10	A minimally invasive surgery robotic assistant for HALSâ€™SILS techniques. Computer Methods and Programs in Biomedicine, 2013, 112, 272-283.	4.7	7
11	Gauze Detection and Segmentation in Minimally Invasive Surgery Video Using Convolutional Neural Networks. Sensors, 2022, 22, 5180.	3.8	6
12	Reactive approach to on-line path planning for robot manipulators in dynamic environments. Robotica, 2002, 20, 375-384.	1.9	5
13	Influence on the user's emotional state of the graphic complexity level in virtual therapies based on a robot-assisted neuro-rehabilitation platform. Computer Methods and Programs in Biomedicine, 2020, 190, 105359.	4.7	5
14	Collaborative Robotic Assistant Platform for Endonasal Surgery: Preliminary In-Vitro Trials. Sensors, 2021, 21, 2320.	3.8	5
15	Selection of Strategies for Collision-free Motion in Multi-manipulator Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2003, 38, 85-104.	3.4	4
16	A Boiler Room in a 600-Bed Hospital Complex: Study, Analysis, and Implementation of Energy Efficiency Improvements. Energies, 2014, 7, 3282-3303.	3.1	4
17	Preliminary Results from the Use of the SOFTROBOT Platform in Stroke Patients. Biosystems and Biorobotics, 2013, , 215-226.	0.3	3
18	Control of the E2REBOT Platform for Upper Limb Rehabilitation in Patients with Neuromotor Impairment. Advances in Intelligent Systems and Computing, 2016, , 303-314.	0.6	1

#	ARTICLE	IF	CITATIONS
19	Monitoring System for Laboratory Mice Transportation: A Novel Concept for the Measurement of Physiological and Environmental Parameters. <i>Electronics (Switzerland)</i> , 2019, 8, 34.	3.1	1
20	Integration of a Surgical Robotic Co-worker in an Endoscopic Neurosurgical Assistance Platform. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 453-464.	0.6	1
21	Robot Biocooperativo con Modulaci3n H4ptica para Tareas de Neurorehabilitaci3n de los Miembros Superiores. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2011, 8, 63-70.	1.0	1
22	Prediction of Cow Calving in Extensive Livestock Using a New Neck-Mounted Sensorized Wearable Device: A Pilot Study. <i>Sensors</i> , 2021, 21, 8060.	3.8	1
23	THROUGHPUT ANALYSIS OF A MULTIROBOT SYSTEM VIA TIMED PETRI NET MODELS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002, 35, 247-252.	0.4	0
24	Psychophysiological Measurements in a Robotic Platform for Upper Limbs Rehabilitation: First Trials. <i>Biosystems and Biorobotics</i> , 2017, , 1205-1209.	0.3	0
25	Estrategia para el control h4ptico, basado en electromiograf4a, de un exoesqueleto de mano para neurorehabilitaci3n.. , 0, , .		0