JosÃ© MarÃ-a CatalÃ¡n Orts

List of Publications by Year
in descending order

36 papers	379 citations	1040056 9 h-index	794594 19 g-index
37 all docs	37 docs citations	37 times ranked	417 citing authors

#	Article	IF	Citations
1	The Effect of an Active Upper-Limb Exoskeleton on Metabolic Parameters and Muscle Activity During a Repetitive Industrial Task. IEEE Access, 2022, 10, 16479-16488.	4.2	11
2	Restoring Activities of Daily Living Using an EEG/EOG-Controlled Semiautonomous and Mobile Whole-Arm Exoskeleton in Chronic Stroke. IEEE Systems Journal, 2021, 15, 2314-2321.	4.6	28
3	Differences in Physiological Reactions Due to a Competitive Rehabilitation Game Modality. Sensors, 2021, 21, 3681.	3.8	8
4	Tele-Rehabilitation Versus Local Rehabilitation Therapies Assisted by Robotic Devices: A Pilot Study with Patients. Applied Sciences (Switzerland), 2021, 11, 6259.	2.5	5
5	A Modular Mobile Robotic Platform to Assist People with Different Degrees of Disability. Applied Sciences (Switzerland), 2021, 11, 7130.	2.5	5
6	Modelo de predicciÃ³n de respuestas cardiovasculares durante la inmersiÃ³n en un entorno acuÃ¡tico. , 2021, , 411-418.		0
7	EvaluaciÃ³n del uso de corriente alterna en la medida de la respuesta galvÃ¡nica de la piel (GSR). , 2021, , 126-132.		0
8	Movement-Related EEG Oscillations of Contralesional Hemisphere Discloses Compensation Mechanisms of Severely Affected Motor Chronic Stroke Patients. International Journal of Neural Systems, 2021, 31, 2150053.	5.2	6
9	Exploring New Potential Applications for Hand Exoskeletons: Power Grip to Assist Human Standing. Sensors, 2021, 21, 30.	3.8	6
10	Oxygen consumption in industrial tasks assisted by an active upper-limb exoskeleton.. , 2020, , .		3
11	Evaluation of performance and heart rate variability during intensive usage of a BCI-controlled hand exoskeleton. , 2020, , .		3
12	Advantages of the Incorporation of an Active Upper-Limb Exoskeleton in Industrial Tasks. Advances in Intelligent Systems and Computing, 2020, , 477-484.	0.6	2
13	Electromyography Assessment of the Assistance Provided by an Upper-Limb Exoskeleton in Maintenance Tasks. Sensors, 2019, 19, 3391.	3.8	27
14	Physiological Responses During Hybrid BNCI Control of an Upper-Limb Exoskeleton. Sensors, 2019, 19, 4931.	3.8	16
15	Physiological reactions in single-player and competitive arm rehabilitation games. , 2019, 2019, 433-436.		2
16	Evaluation of an Upper-Limb Rehabilitation Robotic Device for Home Use from Patient Perspective. Biosystems and Biorobotics, 2019, , 449-453.	0.3	5
17	Human-Centered Design of an Upper-Limb Exoskeleton for Tedious Maintenance Tasks. Biosystems and Biorobotics, 2019, , 515-519.	0.3	2
18	Modulation of Functional Connectivity Evaluated by Surface EEG in Alpha and Beta Band During a Motor-Imagery Based BCI Task. Biosystems and Biorobotics, 2019, , 1087-1091.	0.3	0

#	Article	IF	Citations
19	Grasping Detection with Force Sensor Embedded in a Hand Exoskeleton. Biosystems and Biorobotics, 2019, , 386-390.	0.3	0
20	Hand exoskeleton for rehabilitation therapies with integrated optical force sensor. Advances in Mechanical Engineering, 2018, 10, 168781401775388.	1.6	39
21	Development of a robotic device for post-stroke home tele-rehabilitation. Advances in Mechanical Engineering, 2018, 10, 168781401775230.	1.6	28
22	Intelligent Multimodal Framework for Human Assistive Robotics Based on Computer Vision Algorithms. Sensors, 2018, 18, 2408.	3.8	10
23	Patient Evaluation of an Upper-Limb Rehabilitation Robotic Device for Home Use. , 2018, , .		7
24	Customizable Optical Force Sensor for Fast Prototyping and Cost-Effective Applications. Sensors, 2018, 18, 493.	3.8	9
25	Learning by Demonstration for Motion Planning of Upper-Limb Exoskeletons. Frontiers in Neurorobotics, 2018, 12, 5.	2.8	45
26	Feasibility and safety of shared EEG/EOG and vision-guided autonomous whole-arm exoskeleton control to perform activities of daily living. Scientific Reports, 2018, 8, 10823.	3.3	61
27	Mechanical Design of a Novel Hand Exoskeleton Driven by Linear Actuators. Advances in Intelligent Systems and Computing, 2018, , 557-568.	0.6	0
28	Upper-Limb Motion Analysis in Daily Activities Using Wireless Inertial Sensors. Biosystems and Biorobotics, 2017, , 1079-1083.	0.3	1
29	Multimodal Control Architecture for Assistive Robotics. Biosystems and Biorobotics, 2017, , 513-517.	0.3	2
30	Design of a Prono-Supination Mechanism for Activities of Daily Living. Biosystems and Biorobotics, 2017, , 531-535.	0.3	3
31	Multimodal robotic system for upper-limb rehabilitation in physical environment. Advances in Mechanical Engineering, 2016, 8, 168781401667028.	1.6	16
32	Kinematic reconstruction of the human arm joints in robot-aided therapies with Hermes robot. , 2015, 2015, 1190-3.		3
33	Estimation of Human Arm Joints Using Two Wireless Sensors in Robotic Rehabilitation Tasks. Sensors, 2015, 15, 30571-30583.	3.8	26
34	DiseÃ±o de un sensor Ã³ptico de fuerza para exoesqueleto de mano. , 0, , .		0
35	Sistema robÃ³tico multimodal de miembro superior para interacciÃ³n con entornos fÃsicos. , 0, , .		0
36	DiseÃ±o de un motor de tareas para terapias de neurorehabilitaciÃ³n asistidas por robots. , 0, , .		0