Elena GarcÃ-a

List of Publications by Year
in descending order

24 papers	943 citations	933447 10 h-index	794594 19 g-index
28 all docs	28 docs citations	28 times ranked	1024 citing authors

#	Article	IF	Citations
1	EXOtrainer Project Clinical Evaluation of Gait Training with Exoskeleton in Children with Spinal Muscular Atrophy. Springer Tracts in Advanced Robotics, 2020, , 211-227.	0.4	5
2	A New and Versatile Adjustable Rigidity Actuator with Add-on Locking Mechanism (ARES-XL). Actuators, 2018, 7, 1.	2.3	37
3	Preliminary Assessment of a Compliant Gait Exoskeleton. Soft Robotics, 2017, 4, 135-146.	8.0	10
4	Rehabilitation and assistive robotics. Advances in Mechanical Engineering, 2017, 9, 168781401769933.	1.6	4
5	RESULT OF CLINICAL TRIALS WITH CHILDREN WITH SPINAL MUSCULAR ATROPHY USING THE ATLAS 2020 LOWER-LIMB ACTIVE ORTHOSIS. , 2017, , .		3
6	Identifying Ground-Robot Impedance to Improve Terrain Adaptability in Running Robots. International Journal of Advanced Robotic Systems, 2015, 12, 1.	2.1	198
7	On the Technological Instantiation of a Biomimetic Leg Concept for Agile Quadrupedal Locomotion. Journal of Mechanisms and Robotics, 2015, 7, .	2.2	8
8	An Adjustable Compliant Joint for Lower-Limb Exoskeletons. IEEE/ASME Transactions on Mechatronics, 2015, 20, 889-898.	5.8	119
9	Wearable exoskeletons for the physical treatment of children with quadriparesis. , 2014, , .		5
10	On the Necessity of Including Joint Passive Dynamics in the Impedance Control of Robotic Legs. International Journal of Advanced Robotic Systems, 2014, 11, 102.	2.1	2
11	System identification applied to contact modeling: An experimental investigation. , 2013, , .		3
12	Exploiting joint synergy for actuation in a lowerâ€limb active orthosis. Industrial Robot, 2013, 40, 224-228.	2.1	3
13	EVENT DRIVEN GROUND-IMPEDANCE IDENTIFICATION FOR LEGGED ROBOTS. , 2013, , .		0
14	Impedance Control for Legged Robots: An Insight Into the Concepts Involved. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1400-1411.	2.9	25
15	Parameterized inverted and double pendulum model for controlling lower-limb active orthosis. , 2012, , .		0
16	Control Motion Approach of a Lower Limb Orthosis to Reduce Energy Consumption. International Journal of Advanced Robotic Systems, 2012, 9, 232.	2.1	48
17	A lower-limb exoskeleton for gait assistance in quadriplegia. , 2012, , .		27
18	On the Biomimetic Design of Agile-Robot Legs. Sensors, 2011, 11, 11305-11334.	3.8	35

#	Article	IF	Citations
19	Detailed Study of Amplitude Nonlinearity in Piezoresistive Force Sensors. Sensors, 2011, 11, 8836-8854.	3.8	21
20	The evolution of robotics research. IEEE Robotics and Automation Magazine, 2007, 14, 90-103.	2.0	207
21	On the Improvement of Walking Performance in Natural Environments by a Compliant Adaptive Gait. , 2006, 22, 1240-1253.		25
22	An improved energy stability margin for walking machines subject to dynamic effects. Robotica, 2005, 23, 13-20.	1.9	53
23	A comparative study of stability margins for walking machines. Robotica, 2002, 20, 595-606.	1.9	88
24	Using soft computing techniques for improving foot trajectories in walking machines. Journal of Field Robotics, 2001, 18, 343-356.	0.7	9