

Rene Jimenez-Fabian

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

857
citations

840585

11
h-index

839398

18
g-index

30
all docs

30
docs citations

30
times ranked

932
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of control algorithms for robotic ankle systems in lower-limb orthoses, prostheses, and exoskeletons. <i>Medical Engineering and Physics</i> , 2012, 34, 397-408.	0.8	256
2	LuGre friction model for a magnetorheological damper. <i>Structural Control and Health Monitoring</i> , 2005, 12, 91-116.	1.9	98
3	Human-like compliant locomotion: state of the art of robotic implementations. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 051002.	1.5	87
4	Ankle-knee prosthesis with active ankle and energy transfer: Development of the CYBERLEGS Alpha-Prosthesis. <i>Robotics and Autonomous Systems</i> , 2015, 73, 4-15.	3.0	64
5	Design and energetic evaluation of a prosthetic knee joint actuator with a lockable parallel spring. <i>Bioinspiration and Biomimetics</i> , 2017, 12, 026002.	1.5	43
6	Ankle-Knee prosthesis with powered ankle and energy transfer for CYBERLEGS -prototype. , 2013, 2013, 6650352.		34
7	Reduction of the torque requirements of an active ankle prosthesis using a parallel spring. <i>Robotics and Autonomous Systems</i> , 2017, 92, 187-196.	3.0	31
8	Real time identification of structures with magnetorheological dampers. , 0, , .		26
9	Energetic analysis and optimization of a MACCEPA actuator in an ankle prosthesis. <i>Autonomous Robots</i> , 2018, 42, 147-158.	3.2	26
10	Sliding-Bar MACCEPA for a Powered Ankle Prosthesis. <i>Journal of Mechanisms and Robotics</i> , 2015, 7, .	1.5	25
11	The Challenges and Achievements of Experimental Implementation of an Active Transfemoral Prosthesis Based on Biological Quasi-Stiffness: The CYBERLEGS Beta-Prosthesis. <i>Frontiers in Neurobotics</i> , 2018, 12, 80.	1.6	24
12	A five-state P300-based foot lifter orthosis: Proof of concept. , 2012, , .		19
13	A Variable Stiffness Actuator Module With Favorable Mass Distribution for a Bio-inspired Biped Robot. <i>Frontiers in Neurobotics</i> , 2019, 13, 20.	1.6	16
14	CYBERLEGS Beta-Prosthesis active knee system. , 2015, , .		15
15	Semi-active control of civil structures using magnetorheological dampers. , 0, , .		12
16	A real-time estimation scheme for buildings with intelligent dissipation devices. <i>Mechanical Systems and Signal Processing</i> , 2007, 21, 2427-2440.	4.4	12
17	Online Reconfiguration of a Variable-Stiffness Actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 1866-1876.	3.7	12
18	Novel control strategy for the +SPEA: A redundant actuator with reconfigurable parallel elements. <i>Mechatronics</i> , 2018, 53, 28-38.	2.0	11

#	ARTICLE	IF	CITATIONS
19	An adaptive observer for a shear building with an energy-dissipation device. Control Engineering Practice, 2010, 18, 331-338.	3.2	10
20	A Flexible shaft-driven Remote and Torsionally Compliant Actuator (RTCA) for wearable robots. Mechatronics, 2019, 59, 178-188.	2.0	8
21	Simultaneous state estimation and parameter tuning in a shear building with a magneto-rheological damper. Structural Control and Health Monitoring, 2009, 16, 483-502.	1.9	7
22	An active foot lifter orthosis based on a PCPG algorithm. , 2011, 2011, 5975335.		6
23	Design, development and testing of a lightweight and compact locking mechanism for a passive knee prosthesis. , 2014, , .		5
24	The two-degree-of-freedom cable pulley (2DCP) transmission system: An under-actuated and motion decoupled transmission for robotic applications. Mechanism and Machine Theory, 2020, 148, 103765.	2.7	4
25	A state observer for a building with a magneto-rheological damper and parameter uncertainty. , 2006, , .		2
26	AN IDENTIFIABLE CONTROL-ORIENTED DYNAMIC FRICTION MODEL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 164-169.	0.4	2
27	Prototype design of a novel modular two-degree-of-freedom variable stiffness actuator. , 2014, , .		2
28	Semiactive control of a shear building using an adaptive observer. Proceedings of the American Control Conference, 2007, , .	0.0	0
29	ADAPTIVE STATE ESTIMATION IN A BUILDING WITH AN ADJUSTABLE DAMPER3. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 1046-1051.	0.4	0
30	Estimaci3n adaptable de estados en un edificio de marco plano equipado con un amortiguador magneto-reol3gico. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2008, 5, 135-143.	0.6	0