# Rene Jimenez-Fabian

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 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 |
| 2 | A Variable Stiffness Actuator Module With Favorable Mass Distribution for a Bio-inspired Biped Robot. Frontiers in Neurorobotics, 2019, 13, 20. | 1.6 | 16 |
| 3 | A Flexible shaft-driven Remote and Torsionally Compliant Actuator (RTCA) for wearable robots. Mechatronics, 2019, 59, 178-188. | 2.0 | 8 |
| 4 | Energetic analysis and optimization of a MACCEPA actuator in an ankle prosthesis. Autonomous Robots, 2018, 42, 147-158. | 3.2 | 26 |
| 5 | The Challenges and Achievements of Experimental Implementation of an Active Transfemoral Prosthesis Based on Biological Quasi-Stiffness: The CYBERLEGs Beta-Prosthesis. Frontiers in Neurorobotics, 2018, 12, 80. | 1.6 | 24 |
| 6 | Online Reconfiguration of a Variable-Stiffness Actuator. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1866-1876. | 3.7 | 12 |
| 7 | Novel control strategy for the +SPEA: A redundant actuator with reconfigurable parallel elements. Mechatronics, 2018, 53, 28-38. | 2.0 | 11 |
| 8 | Design and energetic evaluation of a prosthetic knee joint actuator with a lockable parallel spring. Bioinspiration and Biomimetics, 2017, 12, 026002. | 1.5 | 43 |
| 9 | Reduction of the torque requirements of an active ankle prosthesis using a parallel spring. Robotics and Autonomous Systems, 2017, 92, 187-196. | 3.0 | 31 |
| 10 | Human-like compliant locomotion: state of the art of robotic implementations. Bioinspiration and Biomimetics, 2016, 11, 051002. | 1.5 | 87 |
| 11 | Sliding-Bar MACCEPA for a Powered Ankle Prosthesis. Journal of Mechanisms and Robotics, 2015, 7, . | 1.5 | 25 |
| 12 | CYBERLEGS Beta-Prosthesis active knee system. , 2015, , . | | 15 |
| 13 | Ankleâ€“knee prosthesis with active ankle and energy transfer: Development of the CYBERLEGs Alpha-Prosthesis. Robotics and Autonomous Systems, 2015, 73, 4-15. | 3.0 | 64 |
| 14 | Prototype design of a novel modular two-degree-of-freedom variable stiffness actuator. , 2014, , . | | 2 |
| 15 | Design, development and testing of a lightweight and compact locking mechanism for a passive knee prosthesis. , 2014, , . | | 5 |
| 16 | Ankle-Knee prosthesis with powered ankle and energy transfer for CYBERLEGs α-prototype. , 2013, 2013, 6650352. | | 34 |
| 17 | A five-state P300-based foot lifter orthosis: Proof of concept. , 2012, , . | | 19 |
| 18 | Review of control algorithms for robotic ankle systems in lower-limb orthoses, prostheses, and exoskeletons. Medical Engineering and Physics, 2012, 34, 397-408. | 0.8 | 256 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | An active foot lifter orthosis based on a PCPG algorithm. , 2011, 2011, 5975335. | | 6 |
| 20 | An adaptive observer for a shear building with an energy-dissipation device. Control Engineering Practice, 2010, 18, 331-338. | 3.2 | 10 |
| 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 | EstimaciÃ³n adaptable de estados en un edificio de marco plano equipado con un amortiguador magneto-reolÃ³gico. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2008, 5, 135-143. | 0.6 | 0 |
| 23 | Semiactive control of a shear building using an adaptive observer. Proceedings of the American Control Conference, 2007, , . | 0.0 | 0 |
| 24 | AN IDENTIFIABLE CONTROL-ORIENTED DYNAMIC FRICTION MODEL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 164-169. | 0.4 | 2 |
| 25 | 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 |
| 26 | A real-time estimation scheme for buildings with intelligent dissipation devices. Mechanical Systems and Signal Processing, 2007, 21, 2427-2440. | 4.4 | 12 |
| 27 | A state observer for a building with a magneto-rheological damper and parameter uncertainty. , 2006, , . | | 2 |
| 28 | LuGre friction model for a magnetorheological damper. Structural Control and Health Monitoring, 2005, 12, 91-116. | 1.9 | 98 |
| 29 | Real time identification of structures with magnetorheological dampers. , 0, , . | | 26 |
| 30 | Semi-active control of civil structures using magnetorheological dampers. , 0, , . | | 12 |