Ismael Payo GutiÃ©rrez

List of Publications by Year
in descending order

30 papers	373 citations	840585 11 h-index	794469 19 g-index
30 all docs	30 docs citations	30 times ranked	398 citing authors

#	Article	IF	Citations
1	Two-Flexible-Fingers Gripper Force Feedback Control System for Its Application as End Effector on a 6-DOF Manipulator. IEEE Transactions on Robotics, 2011, 27, 599-615.	7.3	47
2	Micro-Vibration-Based Slip Detection in Tactile Force Sensors. Sensors, 2014, 14, 709-730.	2.1	39
3	Sensitivity analysis of piezoelectric paint sensors made up of PZT ceramic powder and water-based acrylic polymer. Sensors and Actuators A: Physical, 2011, 168, 77-89.	2.0	38
4	Force control of a very lightweight single-link flexible arm based on coupling torque feedback. Mechatronics, 2009, 19, 334-347.	2.0	33
5	Dynamic characterization of piezoelectric paint sensors under biaxial strain. Sensors and Actuators A: Physical, 2010, 163, 150-158.	2.0	30
6	Fibre Bragg grating (FBG) sensor system for highly flexible single-link robots. Sensors and Actuators A: Physical, 2009, 150, 24-39.	2.0	27
7	Generalised proportional integral torque control for single-link flexible manipulators. IET Control Theory and Applications, 2010, 4, 773-783.	1.2	23
8	Six-Axis Column-Type Force and Moment Sensor for Robotic Applications. IEEE Sensors Journal, 2018, 18, 6996-7004.	2.4	21
9	Mechanochemical preparation of piezoelectric nanomaterials: BN, MoS₂ and WS₂ 2D materials and their glycine-cocrystals. Nanoscale Horizons, 2020, 5, 331-335.	4.1	21
10	Design of Trajectories with Physical Constraints for very Lightweight Single Link Flexible Arms. JVC/Journal of Vibration and Control, 2008, 14, 1091-1110.	1.5	19
11	Strain gauges based sensor system for measuring 3-D deflections of flexible beams. Sensors and Actuators A: Physical, 2014, 217, 81-94.	2.0	14
12	Control Applied to a Reciprocating Internal Combustion Engine Test Bench under Transient Operation: Impact on Engine Performance and Pollutant Emissions. Energies, 2017, 10, 1690.	1.6	8
13	Improving Energy Efficiency of an Autonomous Bicycle with Adaptive Controller Design. Sustainability, 2017, 9, 866.	1.6	7
14	Experimental Validation of Nonlinear Dynamic Models for Single-Link Very Flexible Arms. , 0, , .		6
15	On Line Visual-Grasping System Based on a Gripper with Two Flexible Fingers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14675-14680.	0.4	5
16	In-hand object localization: Simple vs. complex tactile sensors. , 2014, , .		5
17	New Sensor Device to Accurately Measure Cable Tension in Cable-Driven Parallel Robots. Sensors, 2021, 21, 3604.	2.1	4
18	Slip Detection in Robotic Hands with Flexible Parts. Advances in Intelligent Systems and Computing, 2014, , 153-167.	0.5	4

#	Article	IF	Citations
19	Signal conditioning circuit for gel strain sensors. Smart Materials and Structures, 2022, 31, 015020.	1.8	4
20	Slip Detection in a Novel Tactile Force Sensor. Springer Tracts in Advanced Robotics, 2016, , 237-252.	0.3	3
21	Point-Mass Biomechanical Model of the Upper Extremity During Lofstrand Crutch-Assisted Gait. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 3022-3030.	2.7	3
22	Force Control of a Single-Link Flexible Arm. , 2006, , .		2
23	Design parameters of flexible grippers for grasping. , 2013, , .		2
24	TEACHING-LEARNING MODEL BASED ON THE DESIGN OF DIDACTIC EQUIPMENT FOR LABORATORY PRACTICES IN ENGINEERING SCHOOLS. EDULEARN Proceedings, 2016, , .	0.0	2
25	Design of Trajectories With Physical Constraints for Very Lightweight Single Link Flexible Arms. , 2006, , .		2
26	Linear and non-linear behavior of highly flexible single-link arms. Theory and experiments. , 2009, , .		1
27	A Comparison of Tactile Sensors for In-Hand Object Location. Journal of Sensors, 2016, 2016, 1-12.	0.6	1
28	Energy harvesting from piezoelectric paint films under biaxial strain. Smart Materials and Structures, 2020, 29, 055008.	1.8	1
29	Hydrogel-based soft pneumatic bending actuator with self-healing and proprioception capabilities. , 2022, , .		1
30	CONTROLADOR PROPORCIONAL-INTEGRAL ADAPTATIVO PARA EL AHORRO ENERGÃ‰TICO EN BICICLETAS AUTÃ“NOMAS. Dyna (Spain), 2014, 89, 656-664.	0.1	0