

Juan A Corrales

List of Publications by Year in descending order

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52
papers

1,422
citations

759233

12
h-index

395702

33
g-index

53
all docs

53
docs citations

53
times ranked

1341
citing authors

#	ARTICLE	IF	CITATIONS
1	Robotic Motion Coordination Based on a Geometric Deformation Measure. IEEE Systems Journal, 2022, 16, 3689-3699.	4.6	6
2	Review of soft fluidic actuators: classification and materials modeling analysis. Smart Materials and Structures, 2022, 31, 013001.	3.5	31
3	Dynamic Evaluation of Deformable Object Grasping. IEEE Robotics and Automation Letters, 2022, 7, 4392-4399.	5.1	8
4	Robotic Platforms for Assistance to People with Disabilities. Applied Sciences (Switzerland), 2022, 12, 2235.	2.5	1
5	Tactile-Based Task Definition Through Edge Contact Formation Setpoints for Object Exploration and Manipulation. IEEE Robotics and Automation Letters, 2022, 7, 5007-5014.	5.1	2
6	Adaptive Deformation Control for Elastic Linear Objects. Frontiers in Robotics and AI, 2022, 9, 868459.	3.2	5
7	Large-Area and Low-Cost Force/Tactile Capacitive Sensor for Soft Robotic Applications. Sensors, 2022, 22, 4083.	3.8	14
8	Editorial: Robotic Handling of Deformable Objects. IEEE Robotics and Automation Letters, 2022, 7, 8257-8259.	5.1	0
9	Exoscarne: Assistive Strategies for an Industrial Meat Cutting System Based on Physical Human-Robot Interaction. Applied Sciences (Switzerland), 2021, 11, 3907.	2.5	15
10	A Soft Robotic Gripper With an Active Palm and Reconfigurable Fingers for Fully Dexterous In-Hand Manipulation. IEEE Robotics and Automation Letters, 2021, 6, 7706-7713.	5.1	31
11	An efficient approach to closed-loop shape control of deformable objects using finite element models. , 2021, , .		15
12	General Framework for the Optimization of the Human-Robot Collaboration Decision-Making Process Through the Ability to Change Performance Metrics. Frontiers in Robotics and AI, 2021, 8, 736644.	3.2	2
13	Visual-Tactile Fusion for 3D Objects Reconstruction from a Single Depth View and a Single Gripper Touch for Robotics Tasks. , 2021, , .		2
14	Touch driven controller and tactile features for physical interactions. Robotics and Autonomous Systems, 2020, 123, 103332.	5.1	14
15	Design and Optimization of a Dextrous Robotic Finger: Incorporating a Sliding, Rotating, and Soft-Bending Mechanism While Maximizing Dexterity and Minimizing Dimensions. IEEE Robotics and Automation Magazine, 2020, 27, 56-64.	2.0	10
16	Simulation of Tactile Sensing Arrays for Physical Interaction Tasks. , 2020, , .		4
17	Grasp Planning Pipeline for Robust Manipulation of 3D Deformable Objects with Industrial Robotic Hand + Arm Systems. Applied Sciences (Switzerland), 2020, 10, 8736.	2.5	8
18	Blind Manipulation of Deformable Objects Based on Force Sensing and Finite Element Modeling. Frontiers in Robotics and AI, 2020, 7, 73.	3.2	10

#	ARTICLE	IF	CITATIONS
19	Hierarchical, Dense and Dynamic 3D Reconstruction Based on VDB Data Structure for Robotic Manipulation Tasks. <i>Frontiers in Robotics and AI</i> , 2020, 7, 600387.	3.2	2
20	Force-Torque Sensor Disturbance Observer Using Deep Learning. <i>Springer Proceedings in Advanced Robotics</i> , 2020, , 364-374.	1.3	6
21	A Manipulation Control Strategy for Granular Materials Based on a Gaussian Mixture Model. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 171-183.	0.6	1
22	Resolved-Acceleration Control of Serial Robotic Manipulators Using Unit Dual Quaternions. <i>IFAC-PapersOnLine</i> , 2020, 53, 8500-8505.	0.9	0
23	Monocular Visual Shape Tracking and Servoing for Isometrically Deforming Objects. , 2020, , .		10
24	Deformation-based shape control with a multirobot system. , 2019, , .		8
25	Trust-Based Variable Impedance Control for Cooperative Physical Human-Robot Interaction. , 2019, , .		0
26	Kinematic modeling of an anthropomorphic hand using unit dual quaternion*. , 2019, , .		0
27	Visual Completion Of 3D Object Shapes From A Single View For Robotic Tasks. , 2019, , .		2
28	Predicting Human Intent for Cooperative Physical Human-Robot Interaction Tasks. , 2019, , .		4
29	Dual-Arm Coordination Using Dual Quaternions and Virtual Mechanisms. , 2018, , .		0
30	A Unified Mobile Manipulator Control for On-line Tip-over Avoidance Based on ZMP Disturbance Observer. , 2018, , .		1
31	Online Shape Estimation based on Tactile Sensing and Deformation Modeling for Robot Manipulation. , 2018, , .		22
32	Robotic manipulation and sensing of deformable objects in domestic and industrial applications: a survey. <i>International Journal of Robotics Research</i> , 2018, 37, 688-716.	8.5	281
33	Tactile control based on Gaussian images and its application in bi-manual manipulation of deformable objects. <i>Robotics and Autonomous Systems</i> , 2017, 94, 148-161.	5.1	19
34	Model-based strategy for grasping $3D$ deformable objects using a multi-fingered robotic hand. <i>Robotics and Autonomous Systems</i> , 2017, 95, 196-206.	5.1	41
35	A smooth position-force controller for asbestos removal manipulator. , 2017, , .		2
36	ZMP Features for Touch Driven Robot Control via Tactile Servo. <i>Springer Proceedings in Advanced Robotics</i> , 2017, , 234-243.	1.3	5

#	ARTICLE	IF	CITATIONS
37	Manipulation and Path Planning for KUKA (LWR/ LBR 4+) Robot in a Simulated and Real Environment. Journal of Automation, Mobile Robotics and Intelligent Systems, 2017, 11, 15-21.	0.4	4
38	Robotic Perception of the Sight and Touch to Interact with Environments. Journal of Sensors, 2016, 2016, 1-2.	1.1	2
39	Tactile sensing in dexterous robot hands " Review. Robotics and Autonomous Systems, 2015, 74, 195-220.	5.1	571
40	Multi-fingered robotic hand planner for object reconfiguration through a rolling contact evolution model. , 2013, , .		4
41	Finger Readjustment Algorithm for Object Manipulation Based on Tactile Information. International Journal of Advanced Robotic Systems, 2013, 10, 9.	2.1	8
42	Cooperative Tasks between Humans and Robots in Industrial Environments. International Journal of Advanced Robotic Systems, 2012, 9, 94.	2.1	31
43	Visual control of a multi-robot coupled system: Application to collision avoidance in human-robot interaction. , 2011, , .		1
44	Direct Visual Servoing to Track Trajectories in Human-Robot Cooperation. International Journal of Advanced Robotic Systems, 2011, 8, 44.	2.1	7
45	Safe human"robot interaction based on dynamic sphere-swept line bounding volumes. Robotics and Computer-Integrated Manufacturing, 2011, 27, 177-185.	9.9	64
46	A Multi-Sensorial Hybrid Control for Robotic Manipulation in Human-Robot Workspaces. Sensors, 2011, 11, 9839-9862.	3.8	9
47	Sensor data integration for indoor human tracking. Robotics and Autonomous Systems, 2010, 58, 931-939.	5.1	17
48	Modelling and simulation of a multi-fingered robotic hand for grasping tasks. , 2010, , .		9
49	Survey of Visual and Force/Tactile Control of Robots for Physical Interaction in Spain. Sensors, 2009, 9, 9689-9733.	3.8	18
50	A cooperative robotic system based on multiple sensors to construct metallic structures. International Journal of Advanced Manufacturing Technology, 2009, 45, 616-630.	3.0	6
51	Visual servoing path tracking for safe human-robot interaction. , 2009, , .		4
52	Hybrid tracking of human operators using IMU/UWB data fusion by a Kalman filter. , 2008, , .		82