

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	Tactile sensing in dexterous robot hands " Review. Robotics and Autonomous Systems, 2015, 74, 195-220.	5.1	571
2	Robotic manipulation and sensing of deformable objects in domestic and industrial applications: a survey. International Journal of Robotics Research, 2018, 37, 688-716.	8.5	281
3	Hybrid tracking of human operators using IMU/UWB data fusion by a Kalman filter. , 2008, , .		82
4	Safe human"robot interaction based on dynamic sphere-swept line bounding volumes. Robotics and Computer-Integrated Manufacturing, 2011, 27, 177-185.	9.9	64
5	Model-based strategy for grasping $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" id="mml1" overflow="scroll">\rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle D \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ deformable objects using a multi-fingered robotic hand. Robotics and Autonomous Systems, 2017, 95, 196-206.	5.1	41
6	Cooperative Tasks between Humans and Robots in Industrial Environments. International Journal of Advanced Robotic Systems, 2012, 9, 94.	2.1	31
7	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
8	Review of soft fluidic actuators: classification and materials modeling analysis. Smart Materials and Structures, 2022, 31, 013001.	3.5	31
9	Online Shape Estimation based on Tactile Sensing and Deformation Modeling for Robot Manipulation. , 2018, , .		22
10	Tactile control based on Gaussian images and its application in bi-manual manipulation of deformable objects. Robotics and Autonomous Systems, 2017, 94, 148-161.	5.1	19
11	Survey of Visual and Force/Tactile Control of Robots for Physical Interaction in Spain. Sensors, 2009, 9, 9689-9733.	3.8	18
12	Sensor data integration for indoor human tracking. Robotics and Autonomous Systems, 2010, 58, 931-939.	5.1	17
13	Exoscarne: Assistive Strategies for an Industrial Meat Cutting System Based on Physical Human-Robot Interaction. Applied Sciences (Switzerland), 2021, 11, 3907.	2.5	15
14	An efficient approach to closed-loop shape control of deformable objects using finite element models. , 2021, , .		15
15	Touch driven controller and tactile features for physical interactions. Robotics and Autonomous Systems, 2020, 123, 103332.	5.1	14
16	Large-Area and Low-Cost Force/Tactile Capacitive Sensor for Soft Robotic Applications. Sensors, 2022, 22, 4083.	3.8	14
17	Design and Optimization of a Dexterous 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
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	Monocular Visual Shape Tracking and Servoing for Isometrically Deforming Objects. , 2020, , .		10
20	Modelling and simulation of a multi-fingered robotic hand for grasping tasks. , 2010, , .		9
21	A Multi-Sensorial Hybrid Control for Robotic Manipulation in Human-Robot Workspaces. Sensors, 2011, 11, 9839-9862.	3.8	9
22	Finger Readjustment Algorithm for Object Manipulation Based on Tactile Information. International Journal of Advanced Robotic Systems, 2013, 10, 9.	2.1	8
23	Deformation-based shape control with a multirobot system. , 2019, , .		8
24	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
25	Dynamic Evaluation of Deformable Object Grasping. IEEE Robotics and Automation Letters, 2022, 7, 4392-4399.	5.1	8
26	Direct Visual Servoing to Track Trajectories in Human-Robot Cooperation. International Journal of Advanced Robotic Systems, 2011, 8, 44.	2.1	7
27	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
28	Robotic Motion Coordination Based on a Geometric Deformation Measure. IEEE Systems Journal, 2022, 16, 3689-3699.	4.6	6
29	Force-Torque Sensor Disturbance Observer Using Deep Learning. Springer Proceedings in Advanced Robotics, 2020, , 364-374.	1.3	6
30	ZMP Features for Touch Driven Robot Control via Tactile Servo. Springer Proceedings in Advanced Robotics, 2017, , 234-243.	1.3	5
31	Adaptive Deformation Control for Elastic Linear Objects. Frontiers in Robotics and AI, 2022, 9, 868459.	3.2	5
32	Visual servoing path tracking for safe human-robot interaction. , 2009, , .		4
33	Multi-fingered robotic hand planner for object reconfiguration through a rolling contact evolution model. , 2013, , .		4
34	Predicting Human Intent for Cooperative Physical Human-Robot Interaction Tasks. , 2019, , .		4
35	Simulation of Tactile Sensing Arrays for Physical Interaction Tasks. , 2020, , .		4
36	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

#	ARTICLE	IF	CITATIONS
37	Robotic Perception of the Sight and Touch to Interact with Environments. Journal of Sensors, 2016, 2016, 1-2.	1.1	2
38	A smooth position-force controller for asbestos removal manipulator. , 2017, , .		2
39	Visual Completion Of 3D Object Shapes From A Single View For Robotic Tasks. , 2019, , .		2
40	Hierarchical, Dense and Dynamic 3D Reconstruction Based on VDB Data Structure for Robotic Manipulation Tasks. Frontiers in Robotics and AI, 2020, 7, 600387.	3.2	2
41	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
42	Visual-Tactile Fusion for 3D Objects Reconstruction from a Single Depth View and a Single Gripper Touch for Robotics Tasks. , 2021, , .		2
43	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
44	Visual control of a multi-robot coupled system: Application to collision avoidance in human-robot interaction. , 2011, , .		1
45	A Unified Mobile Manipulator Control for On-line Tip-over Avoidance Based on ZMP Disturbance Observer. , 2018, , .		1
46	A Manipulation Control Strategy for Granular Materials Based on a Gaussian Mixture Model. Advances in Intelligent Systems and Computing, 2020, , 171-183.	0.6	1
47	Robotic Platforms for Assistance to People with Disabilities. Applied Sciences (Switzerland), 2022, 12, 2235.	2.5	1
48	Dual-Arm Coordination Using Dual Quaternions and Virtual Mechanisms. , 2018, , .		0
49	Trust-Based Variable Impedance Control for Cooperative Physical Human-Robot Interaction. , 2019, , .		0
50	Kinematic modeling of an anthropomorphic hand using unit dual quaternion*. , 2019, , .		0
51	Resolved-Acceleration Control of Serial Robotic Manipulators Using Unit Dual Quaternions. IFAC-PapersOnLine, 2020, 53, 8500-8505.	0.9	0
52	Editorial: Robotic Handling of Deformable Objects. IEEE Robotics and Automation Letters, 2022, 7, 8257-8259.	5.1	0