Veronica J Santos

List of Publications by Year
in descending order

32 papers	1,468 citations	687363 13 h-index	552781 26 g-index
32 all docs	32 docs citations	32 times ranked	1799 citing authors

#	Article	IF	Citations
1	Medical roboticsâ€"Regulatory, ethical, and legal considerations for increasing levels of autonomy. Science Robotics, 2017, 2, .	17.6	349
2	Biomimetic Tactile Sensor Array. Advanced Robotics, 2008, 22, 829-849.	1.8	305
3	Flexible microfluidic normal force sensor skin for tactile feedback. Sensors and Actuators A: Physical, 2012, 179, 62-69.	4.1	231
4	Reported Anatomical Variability Naturally Leads to Multimodal Distributions of Denavit-Hartenberg Parameters for the Human Thumb. IEEE Transactions on Biomedical Engineering, 2006, 53, 155-163.	4.2	94
5	A robust micro-vibration sensor for biomimetic fingertips. , 2008, , .		64
6	Bioinspired flexible microfluidic shear force sensor skin. Sensors and Actuators A: Physical, 2017, 264, 289-297.	4.1	62
7	From robotic hands to human hands: a visualization and simulation engine for grasping research. Industrial Robot, 2005, 32, 55-63.	2.1	54
8	Elastohydrodynamic friction of robotic and human fingers on soft micropatterned substrates. Nature Materials, 2021, 20, 1707-1711.	27.5	33
9	Functional Contour-following via Haptic Perception and Reinforcement Learning. IEEE Transactions on Haptics, 2018, 11, 61-72.	2.7	32
10	Maximal Voluntary Fingertip Force Production Is Not Limited by Movement Speed in Combined Motion and Force Tasks. Journal of Neuroscience, 2009, 29, 8784-8789.	3.6	29
11	Measuring Dynamic Shear Force and Vibration With a Bioinspired Tactile Sensor Skin. IEEE Sensors Journal, 2018, 18, 3544-3553.	4.7	28
12	A Robot Hand Testbed Designed for Enhancing Embodiment and Functional Neurorehabilitation of Body Schema in Subjects with Upper Limb Impairment or Loss. Frontiers in Human Neuroscience, 2015, 9, 26.	2.0	26
13	Deformable skin design to enhance response of a biomimetic tactile sensor. , 2008, , .		20
14	Exploiting Three-Dimensional Gaze Tracking for Action Recognition During Bimanual Manipulation to Enhance Humanâ€"Robot Collaboration. Frontiers in Robotics and AI, 2018, 5, 25.	3.2	17
15	Biomimetic Tactile Sensor for Control of Grip. , 2007, , .		15
16	Spatial Asymmetry in Tactile Sensor Skin Deformation Aids Perception of Edge Orientation During Haptic Exploration. IEEE Transactions on Haptics, 2014, 7, 191-202.	2.7	14
17	Surgical Hand Tracking in Open Surgery Using a Versatile Motion Sensing System: Are We There Yet?. American Surgeon, 2016, 82, 872-875.	0.8	14
18	Improving the Fitness of High-Dimensional Biomechanical Models via Data-Driven Stochastic Exploration. IEEE Transactions on Biomedical Engineering, 2009, 56, 552-564.	4.2	12

#	ARTICLE	IF	CITATIONS
19	Scalable fabric tactile sensor arrays for soft bodies. Journal of Micromechanics and Microengineering, 2018, 28, 064004.	2.6	12
20	Interactions Between Tactile and Proprioceptive Representations in Haptics. Journal of Motor Behavior, 2012, 44, 391-401.	0.9	9
21	Precision grip responses to unexpected rotational perturbations scale with axis of rotation. Journal of Biomechanics, 2013, 46, 1098-1103.	2.1	9
22	Toward Shared Autonomy Control Schemes for Human-Robot Systems: Action Primitive Recognition Using Eye Gaze Features. Frontiers in Neurorobotics, 2020, 14, 567571.	2.8	9
23	A Bayesian approach to biomechanical modeling to optimize over large parameter spaces while considering anatomical variability. , 2004, 2004, 4626-9.		5
24	Haptic exploration of fingertip-sized geometric features using a multimodal tactile sensor. Proceedings of SPIE, 2014, , .	0.8	5
25	Perception of Tactile Directionality via Artificial Fingerpad Deformation and Convolutional Neural Networks. IEEE Transactions on Haptics, 2020, 13, 831-839.	2.7	4
26	Human Grip Responses to Perturbations of Objects During Precision Grip. Springer Tracts in Advanced Robotics, 2014, , 159-188.	0.4	4
27	Independent digit contributions to rotational manipulation in a three-digit pouring task requiring dynamic stability. Experimental Brain Research, 2015, 233, 2195-2204.	1.5	3
28	Discriminability of Single and Multichannel Intracortical Microstimulation within Somatosensory Cortex. Frontiers in Bioengineering and Biotechnology, 2016, 4, 91.	4.1	3
29	Tactile Perception for Teleoperated Robotic Exploration within Granular Media. ACM Transactions on Human-Robot Interaction, 2021, 10, 1-27.	4.1	3
30	Autonomous Learning of Page Flipping Movements via Tactile Feedback. IEEE Transactions on Robotics, 2022, 38, 2734-2749.	10.3	2
31	[D78] Tendon-driven testbed for haptic exploration and sensory event-driven grasp and manipulation. , 2014, , .		1
32	Design of a back-driveable actuation system for modular control of tendon-driven robot hands. , 2012, , .		0