Vincent Duchaine

List of Publications by Year in descending order

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1163117 1125743 1,240 31 8 13 citations h-index g-index papers 31 31 31 1493 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Capacitive Tactile Sensor Using Mutual Capacitance Sensing Method for Increased Resolution. , 2022, , .		4
2	Determining Object Properties from Tactile Events During Grasp Failure., 2019,,.		3
3	Improving the Generalizability of Robot Assembly Tasks Learned from Demonstration via CNN-based Segmentation. , $2019, , .$		3
4	Improving Industrial Grippers With Adhesion-Controlled Friction. IEEE Robotics and Automation Letters, 2018, 3, 1041-1048.	5.1	37
5	The Programmable Permanent Magnet Actuator: A Paradigm Shift in Efficiency for Low-Speed Torque-Holding Robotic Applications. IEEE Robotics and Automation Letters, 2018, 3, 1751-1758.	5.1	2
6	An Extrinsic Dexterity Approach to the IROS 2018 Fan Robotic Challenge. , 2018, , .		0
7	The Impact of Simultaneously Applying Normal Stress and Vibrotactile Stimulation for Feedback of Exteroceptive Information. Journal of Biomechanical Engineering, 2017, 139, .	1.3	9
8	Texture roughness estimation using dynamic tactile sensing. , 2017, , .		4
9	Textures recognition through tactile exploration for robotic applications. , 2017, , .		O
10	A comparative study of the optimal control design using evolutionary algorithms: Application on a close-loop system. , 2017, , .		1
11	Grasp stability assessment through the fusion of proprioception and tactile signals using convolutional neural networks. , 2017, , .		34
12	Grasp stability assessment through unsupervised feature learning of tactile images. , 2017, , .		29
13	A highly sensitive multimodal capacitive tactile sensor. , 2017, , .		32
14	MCOA: mutated and self-adaptive cuckoo optimization algorithm. Evolutionary Intelligence, 2016, 9, 21-36.	3.6	4
15	An Improved Soft Dielectric for a Highly Sensitive Capacitive Tactile Sensor. IEEE Sensors Journal, 2016, 16, 7853-7863.	4.7	57
16	Unsupervised feature learning for classifying dynamic tactile events using sparse coding., 2016,,.		23
17	Soft Tactile Skin Using an Embedded Ionic Liquid and Tomographic Imaging. Journal of Mechanisms and Robotics, 2015, 7, .	2.2	86
18	We arable soft artificial skin for hand motion detection with embedded microfluidic strain sensing. , 2015, , .		82

#	Article	IF	Citations
19	A Wearable Haptic Device Based on Twisting Wire Actuators for Feedback of Tactile Pressure Information. Journal of Robotics and Mechatronics, 2015, 27, 419-429.	1.0	5
20	STRUCTURAL OPTIMISATION OF A FORCE-TORQUE SENSOR THROUGH ITS INPUT-OUTPUT RELATIONSHIP. Transactions of the Canadian Society for Mechanical Engineering, 2014, 38, 199-212.	0.8	4
21	Miniature capacitive three-axis force sensor. , 2014, , .		7
22	A Soft Strain Sensor Based on Ionic and Metal Liquids. IEEE Sensors Journal, 2013, 13, 3405-3414.	4.7	288
23	A Friendly Beast of Burden: A Human-Assistive Robot for Handling Large Payloads. IEEE Robotics and Automation Magazine, 2013, 20, 139-147.	2.0	50
24	Unified Robot Control Scheme for Cooperative Motion, Autonomous Motion and Contact Reaction. Journal of Robotics and Mechatronics, 2011, 23, 557-566.	1.0	4
25	Characterization of the electrical resistance of carbon-black-filled silicone: Application to a flexible and stretchable robot skin., 2010,,.		41
26	Safe, Stable and Intuitive Control for Physical Human-Robot Interaction., 2009,,.		73
27	A flexible robot skin for safe physical human robot interaction. , 2009, , .		64
28	Investigation of human-robot interaction stability using Lyapunov theory., 2008,,.		50
29	Computationally Efficient Predictive Robot Control. IEEE/ASME Transactions on Mechatronics, 2007, 12, 570-578.	5.8	59
30	Parallel Mechanisms of the Multipteron Family: Kinematic Architectures and Benchmarking. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	46
31	General Model of Human-Robot Cooperation Using a Novel Velocity Based Variable Impedance Control. , 2007, , .		139