Marcia O'Malley

List of Publications by Year
in descending order

185	4,423	186265 28	149698 56
papers	citations	h-index	g-index

188	188	188	3431
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Tactile Masking on Multi-Sensory Haptic Perception. IEEE Transactions on Haptics, 2022, 15, 212-221.	2.7	6
2	Haptic Feedback Based on Movement Smoothness Improves Performance in a Perceptual-Motor Task. IEEE Transactions on Haptics, 2022, 15, 382-391.	2.7	3
3	Design, Control, and Psychophysics of Tasbi: A Force-Controlled Multimodal Haptic Bracelet. IEEE Transactions on Robotics, 2022, 38, 2962-2978.	10.3	14
4	A Textile-Based Approach to Wearable Haptic Devices. , 2022, , .		5
5	Syntacts: Open-Source Software and Hardware for Audio-Controlled Haptics. IEEE Transactions on Haptics, 2021, 14, 225-233.	2.7	23
6	A Multisensory Approach to Present Phonemes as Language Through a Wearable Haptic Device. IEEE Transactions on Haptics, 2021, 14, 188-199.	2.7	22
7	Single limb cable driven wearable robotic device for upper extremity movement support after traumatic brain injury. Journal of Rehabilitation and Assistive Technologies Engineering, 2021, 8, 205566832110024.	0.9	5
8	Velocity-Domain Motion Quality Measures for Surgical Performance Evaluation and Feedback. Journal of Medical Devices, Transactions of the ASME, 2021, 15, .	0.7	2
9	Evaluating the Effect of Stimulus Duration on Vibrotactile Cue Localizability With a Tactile Sleeve. IEEE Transactions on Haptics, 2021, 14, 328-334.	2.7	4
10	The SE-AssessWrist for robot-aided assessment of wrist stiffness and range of motion: Development and experimental validation. Journal of Rehabilitation and Assistive Technologies Engineering, 2021, 8, 205566832098577.	0.9	5
11	Effects of Interfering Cue Separation Distance and Amplitude on the Haptic Detection of Skin Stretch. IEEE Transactions on Haptics, 2021, 14, 254-259.	2.7	1
12	Snaptics: Low-Cost Open-Source Hardware for Wearable Multi-Sensory Haptics. , 2021, , .		4
13	Myoelectric control and neuromusculoskeletal modeling: Complementary technologies for rehabilitation robotics. Current Opinion in Biomedical Engineering, 2021, 19, 100313.	3.4	8
14	Effect of Robotic Exoskeleton Motion Constraints on Upper Limb Muscle Synergies: A Case Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 2086-2095.	4.9	5
15	Design and Characterization of a Passive Instrumented Hand. ASME Letters in Dynamic Systems and Control, 2021, 1, .	0.7	2
16	A decade retrospective of medical robotics research from 2010 to 2020. Science Robotics, 2021, 6, eabi8017.	17.6	158
17	Electromyographic Classification to Control the SPAR Glove. IFAC-PapersOnLine, 2021, 54, 244-250.	0.9	1
18	Comparing Manual and Robotic-Assisted Carotid Artery Stenting Using Motion-Based Performance Metrics. , 2021, 2021, 1388-1391.		1

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19	Multi-Sensory Stimuli Improve Distinguishability of Cutaneous Haptic Cues. IEEE Transactions on Haptics, 2020, 13, 286-297.	2.7	27
20	Importance of Wrist Movement Direction in Performing Activities of Daily Living Efficiently. , 2020, 2020, 3174-3177.		6
21	Neural activity modulations and motor recovery following brain-exoskeleton interface mediated stroke rehabilitation. NeuroImage: Clinical, 2020, 28, 102502.	2.7	24
22	Spatially Separated Cutaneous Haptic Guidance for Training of a Virtual Sensorimotor Task. , 2020, , .		4
23	A Myoelectric Control Interface for Upper-Limb Robotic Rehabilitation Following Spinal Cord Injury. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 978-987.	4.9	28
24	A review of methods for achieving upper limb movement following spinal cord injury through hybrid muscle stimulation and robotic assistance. Experimental Neurology, 2020, 328, 113274.	4.1	39
25	In the Fundamentals of Endovascular and Vascular Surgery model motion metrics reliably differentiate competency. Journal of Vascular Surgery, 2020, 72, 2161-2165.	1.1	6
26	Towards Automated Performance Assessment using Velocity-based Motion Quality Metrics. , 2020, , .		2
27	On the role of wearable haptics for force feedback in teleimpedance control for dual-arm robotic teleoperation. , 2019, , .		19
28	Expert Surgeons Can Smoothly Control Robotic Tools With a Discrete Control Interface. IEEE Transactions on Human-Machine Systems, 2019, 49, 388-394.	3.5	12
29	Improving short-term retention after robotic training by leveraging fixed-gain controllers. Journal of Rehabilitation and Assistive Technologies Engineering, 2019, 6, 205566831986631.	0.9	1
30	A Robotic Platform for 3D Forelimb Rehabilitation with Rats. , 2019, 2019, 429-434.		0
31	Spatially Separating Haptic Guidance From Task Dynamics Through Wearable Devices. IEEE Transactions on Haptics, 2019, 12, 581-593.	2.7	20
32	Skin Stretch Haptic Feedback to Convey Closure Information in Anthropomorphic, Under-Actuated Upper Limb Soft Prostheses. IEEE Transactions on Haptics, 2019, 12, 508-520.	2.7	35
33	Enabling Robots to Infer How End-Users Teach and Learn Through Human-Robot Interaction. IEEE Robotics and Automation Letters, 2019, 4, 1956-1963.	5.1	11
34	The Influence of Cue Presentation Velocity on Skin Stretch Perception. , 2019, , .		1
35	Effect of Interference on Multi-Sensory Haptic Perception of Stretch and Squeeze. , 2019, , .		8
36	A Cutaneous Haptic Cue Characterization Testbed. , 2019, , .		6

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37	Hybrid Rigid-Soft Hand Exoskeleton to Assist Functional Dexterity. IEEE Robotics and Automation Letters, 2019, 4, 73-80.	5.1	84
38	Closure to â€œDiscussion of â€˜A Review of Intent Detection, Arbitration, and Communication Aspects of Shared Control for Physical Humanâ€“Robot Interactionâ€™â€™ (Losey, D. P., McDonald, C. G., Battaglia, E.,) Tj ETQq1 0.1 0 rgBT /Overlock	10.1	
39	The hBracelet: A Wearable Haptic Device for the Distributed Mechanotactile Stimulation of the Upper Limb. IEEE Robotics and Automation Letters, 2018, 3, 2198-2205.	5.1	42
40	Learning from Physical Human Corrections, One Feature at a Time. , 2018, , .		45
41	Evaluation of Velocity Estimation Methods Based on Their Effect on Haptic Device Performance. IEEE/ASME Transactions on Mechatronics, 2018, 23, 604-613.	5.8	19
42	A Review of Intent Detection, Arbitration, and Communication Aspects of Shared Control for Physical Humanâ€“Robot Interaction. Applied Mechanics Reviews, 2018, 70, .	10.1	206
43	Reflection on System Dynamics Principles Improves Student Performance in Haptic Paddle Labs. IEEE Transactions on Education, 2018, 61, 245-252.	2.4	6
44	Electromagnetic tracking of flexible robotic catheters enables â€œassisted navigationâ€•and brings automation to endovascular navigation in an in vitro study. Journal of Vascular Surgery, 2018, 67, 1274-1281.	1.1	27
45	Cycloidal Geartrain In-Use Efficiency Study. , 2018, , .		2
46	Toward improved surgical training: Delivering smoothness feedback using haptic cues. , 2018, , .		12
47	A Bowden Cable-Based Series Elastic Actuation Module for Assessing the Human Wrist. , 2018, , .		3
48	Conveying language through haptics. , 2018, , .		29
49	Quantitative Testing of fMRI-Compatibility of an Electrically Active Mechatronic Device for Robot-Assisted Sensorimotor Protocols. IEEE Transactions on Biomedical Engineering, 2018, 65, 1595-1606.	4.2	11
50	Separating haptic guidance from task dynamics: A practical solution via cutaneous devices. , 2018, , .		9
51	Assessing Wrist Movement With Robotic Devices. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1585-1595.	4.9	21
52	Improving Perception Accuracy with Multi-sensory Haptic Cue Delivery. Lecture Notes in Computer Science, 2018, , 289-301.	1.3	19
53	The rice haptic rocker: Altering the perception of skin stretch through mapping and geometric design. , 2018, , .		12
54	The Rice Haptic Rocker: Comparing Longitudinal and Lateral Upper-Limb Skin Stretch Perception. Lecture Notes in Computer Science, 2018, , 125-134.	1.3	7

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55	Flexible robotics with electromagnetic tracking improves safety and efficiency during inÂvitro endovascular navigation. Journal of Vascular Surgery, 2017, 65, 530-537.	1.1	14
56	Kinesthetic Feedback During 2DOF Wrist Movements via a Novel MR-Compatible Robot. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1489-1499.	4.9	28
57	White matter changes in corticospinal tract associated with improvement in arm and hand functions in incomplete cervical spinal cord injury: pilot case series. Spinal Cord Series and Cases, 2017, 3, 17028.	0.6	8
58	Improving robotic stroke rehabilitation by incorporating neural intent detection: Preliminary results from a clinical trial. , 2017, 2017, 122-127.		17
59	Robot-Assisted Training of Arm and Hand Movement Shows Functional Improvements for Incomplete Cervical Spinal Cord Injury. American Journal of Physical Medicine and Rehabilitation, 2017, 96, S171-S177.	1.4	38
60	Design and characterization of the OpenWrist: A robotic wrist exoskeleton for coordinated hand-wrist rehabilitation. , 2017, 2017, 720-725.		45
61	Maintaining subject engagement during robotic rehabilitation with a minimal assist-as-needed (mAAN) controller. , 2017, 2017, 62-67.		15
62	A cable-based series elastic actuator with conduit sensor for wearable exoskeletons. , 2017, , .		7
63	A Ball and Beam Module for a Haptic Paddle Education Platform. , 2017, , .		3
64	On the Efficacy of Isolating Shoulder and Elbow Movements with a Soft, Portable, and Wearable Robotic Device. Biosystems and Biorobotics, 2017, , 89-93.	0.3	10
65	Estimating anatomical wrist joint motion with a robotic exoskeleton. , 2017, 2017, 1437-1442.		6
66	Characterization of surface electromyography patterns of healthy and incomplete spinal cord injury subjects interacting with an upper-extremity exoskeleton. , 2017, 2017, 164-169.		7
67	The effect of robot dynamics on smoothness during wrist pointing. , 2017, 2017, 597-602.		4
68	The Rice Haptic Rocker: Skin stretch haptic feedback with the Pisa/IIT SoftHand. , 2017, , .		57
69	Effects of Assist-As-Needed Upper Extremity Robotic Therapy after Incomplete Spinal Cord Injury: A Parallel-Group Controlled Trial. Frontiers in Neurorobotics, 2017, 11, 26.	2.8	31
70	Design of an assistive, glove-based exoskeleton. , 2017, , .		4
71	Combining functional electrical stimulation and a powered exoskeleton to control elbow flexion. , 2017, , .		12
72	Effects of discretization on the K-width of series elastic actuators. , 2017, , .		12

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73	Toward training surgeons with motion-based feedback: Initial validation of smoothness as a measure of motor learning. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 1531-1535.	0.3	6
74	Design and Optimization of an EEG-Based Brain Machine Interface (BMI) to an Upper-Limb Exoskeleton for Stroke Survivors. Frontiers in Neuroscience, 2016, 10, 122.	2.8	130
75	Improving the retention of motor skills after reward-based reinforcement by incorporating haptic guidance and error augmentation. , 2016, , .		4
76	Transcranial direct current stimulation (tDCS) of the primary motor cortex and robot-assisted arm training in chronic incomplete cervical spinal cord injury: A proof of concept sham-randomized clinical study. NeuroRehabilitation, 2016, 39, 401-411.	1.3	45
77	A bio-inspired algorithm for identifying unknown kinematics from a discrete set of candidate models by using collision detection. , 2016, , .		1
78	A Time-Domain Approach to Control of Series Elastic Actuators: Adaptive Torque and Passivity-Based Impedance Control. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2085-2096.	5.8	54
79	Smoothness of surgical tool tip motion correlates to skill in endovascular tasks. IEEE Transactions on Human-Machine Systems, 2016, 46, 647-659.	3.5	41
80	Minimal Assist-as-Needed Controller for Upper Limb Robotic Rehabilitation. IEEE Transactions on Robotics, 2016, 32, 113-124.	10.3	178
81	Proportional sEMG Based Robotic Assistance in an Isolated Wrist Movement. , 2015, , .		3
82	Leveraging disturbance observer based torque control for improved impedance rendering with series elastic actuators. , 2015, , .		25
83	An exploration of grip force regulation with a low-impedance myoelectric prosthesis featuring referred haptic feedback. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 104.	4.6	35
84	A Subject-Adaptive Controller for Wrist Robotic Rehabilitation. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1338-1350.	5.8	77
85	The role of auxiliary and referred haptic feedback in myoelectric control. , 2015, , .		12
86	Design of a parallel-group balanced controlled trial to test the effects of assist-as-needed robotic therapy. , 2015, , .		2
87	Characterization of a hand-wrist exoskeleton, READAPT, via kinematic analysis of redundant pointing tasks. , 2015, , .		9
88	Development, control, and MRI-compatibility of the MR-SoftWrist. , 2015, , .		17
89	A Method for Selecting Velocity Filter Cut-Off Frequency for Maximizing Impedance Width Performance in Haptic Interfaces. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	10
90	Kinematics effectively delineate accomplished users of endovascular robotics with a physical training model. Journal of Vascular Surgery, 2015, 61, 535-541.	1.1	17

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91	A robotic exoskeleton for rehabilitation and assessment of the upper limb following incomplete spinal cord injury. , 2015, , .		40
92	On the stability and accuracy of high stiffness rendering in non-backdrivable actuators through series elasticity. Mechatronics, 2015, 26, 64-75.	3.3	25
93	Tactile Feedback of Object Slip Facilitates Virtual Object Manipulation. IEEE Transactions on Haptics, 2015, 8, 454-466.	2.7	44
94	An index finger exoskeleton with series elastic actuation for rehabilitation: Design, control and performance characterization. International Journal of Robotics Research, 2015, 34, 1747-1772.	8.5	140
95	Interaction Control Capabilities of an MR-Compatible Compliant Actuator for Wrist Sensorimotor Protocols During fMRI. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2678-2690.	5.8	27
96	The model for Fundamentals of Endovascular Surgery (FEVS) successfully defines the competent endovascular surgeon. Journal of Vascular Surgery, 2015, 62, 1660-1666.e3.	1.1	18
97	Position Synchronization in Bilateral Teleoperation Under Time-Varying Communication Delays. IEEE/ASME Transactions on Mechatronics, 2015, 20, 245-253.	5.8	79
98	A model matching framework for the synthesis of series elastic actuator impedance control. , 2014, , .		10
99	System Characterization of MAHI Exo-II: A Robotic Exoskeleton for Upper Extremity Rehabilitation. , 2014, 2014, .		32
100	On the development of objective metrics for surgical skills evaluation based on tool motion. , 2014, , .		16
101	Modeling Basic Aspects of Cyber-Physical Systems, Part II (Extended Abstract). , 2014, , .		2
102	Design and characterization of a haptic paddle for dynamics education. , 2014, , .		15
103	Detecting movement intent from scalp EEG in a novel upper limb robotic rehabilitation system for stroke. , 2014, 2014, 4127-4130.		17
104	Compliant force-feedback actuation for accurate robot-mediated sensorimotor interaction protocols during fMRI. , 2014, , .		4
105	Tactile feedback of object slip improves performance in a grasp and hold task. , 2014, , .		10
106	Message from the symposium chairs. , 2014, , .		0
107	Identifying Successful Motor Task Completion via Motion-Based Performance Metrics. IEEE Transactions on Human-Machine Systems, 2014, 44, 139-145.	3.5	13
108	Compensating position drift in Time Domain Passivity Approach based teleoperation. , 2014, , .		17

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109	Design and validation of the RiceWrist-S exoskeleton for robotic rehabilitation after incomplete spinal cord injury. Robotica, 2014, 32, 1415-1431.	1.9	73
110	Current Trends in Robot-Assisted Upper-Limb Stroke Rehabilitation: Promoting Patient Engagement in Therapy. Current Physical Medicine and Rehabilitation Reports, 2014, 2, 184-195.	0.8	159
111	Vary Slow Motion: Effect of Task Forces on Movement Variability and Implications for a Novel Skill Augmentation Mechanism. IEEE Robotics and Automation Magazine, 2014, 21, 115-122.	2.0	4
112	Dynamic displacement sensing, system identification, and control of a speaker-based tendon vibrator via accelerometers. IEEE/ASME Transactions on Mechatronics, 2013, 18, 812-817.	5.8	7
113	Adaptive control of a serial-in-parallel robotic rehabilitation device. , 2013, 2013, 6650412.		12
114	Reconstructing surface EMG from scalp EEG during myoelectric control of a closed looped prosthetic device. , 2013, 2013, 5602-5.		8
115	Interaction Control for Rehabilitation Robotics via a Low-Cost Force Sensing Handle. , 2013, , .		5
116	A Method for Selecting Velocity Filter Cutoff Frequency for Maximizing Impedance Width Performance in Haptic Interfaces. , 2013, , .		0
117	System characterization of RiceWrist-S: A forearm-wrist exoskeleton for upper extremity rehabilitation. , 2013, 2013, 6650462.		14
118	Design of a series elastic actuator for a compliant parallel wrist rehabilitation robot. , 2013, 2013, 6650481.		22
119	A pre-clinical framework for neural control of a therapeutic upper-limb exoskeleton. , 2013, , 1159-1162.		8
120	Understanding the role of haptic feedback in a teleoperated/prosthetic grasp and lift task. , 2013, , .		30
121	Interaction Control of a Non-Backdriveable MR-Compatible Actuator Through Series Elasticity. , 2013, , .		3
122	Human-Scale Motion Capture with an Accelerometer-Based Gaming Controller. Journal of Robotics and Mechatronics, 2013, 25, 458-465.	1.0	2
123	Robotic training and clinical assessment of upper extremity movements after spinal cord injury: A single case report. Journal of Rehabilitation Medicine, 2012, 44, 186-188.	1.1	53
124	Message from the symposium chairs. , 2012, , .		0
125	The Task-Dependent Efficacy of Shared-Control Haptic Guidance Paradigms. IEEE Transactions on Haptics, 2012, 5, 208-219.	2.7	76
126	On the performance of passivity-based control of haptic displays employing levant's differentiator for velocity estimation. , 2012, , .		10

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127	On the correlation between motion data captured from low-cost gaming controllers and high precision encoders. , 2012, 2012, 4529-32.		1
128	Mechanical design of RiceWrist-S: A forearm-wrist exoskeleton for stroke and spinal cord injury rehabilitation. , 2012, , .		30
129	Efficacy of shared-control guidance paradigms for robot-mediated training. , 2011, , .		20
130	Work in progress — Implementing and evaluating efforts to engage interdisciplinary teams to solve real-world design challenges. , 2011, , .		2
131	Rate of human motor adaptation under varying system dynamics. , 2011, , .		2
132	Effect of progressive visual error amplification on human motor adaptation. , 2011, 2011, 5975399.		4
133	Application of Levant's differentiator for velocity estimation and increased Z-width in haptic interfaces. , 2011, , .		28
134	Mechanical design of a distal arm exoskeleton for stroke and spinal cord injury rehabilitation. , 2011, 2011, 5975428.		46
135	Design of a low-cost series elastic actuator for multi-robot manipulation. , 2011, , .		8
136	Motor Skill Acquisition in a Virtual Gaming Environment. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 2148-2152.	0.3	4
137	Vision-based force sensing for nanomanipulation. IEEE/ASME Transactions on Mechatronics, 2011, 16, 1177-1183.	5.8	17
138	Disturbance-Observer-Based Force Estimation for Haptic Feedback. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	1.6	44
139	A Lyapunov Approach for SOSM Based Velocity Estimation and Its Application to Improve Bilateral Teleoperation Performance. , 2011, , .		2
140	Normalized Movement Quality Measures for Therapeutic Robots Strongly Correlate With Clinical Motor Impairment Measures. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 433-444.	4.9	88
141	A Preliminary ACT-R Model of a Continuous Motor Task. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 1037-1041.	0.3	1
142	Analysis and comparison of low cost gaming controllers for motion analysis. , 2010, , .		6
143	Incorporating simulation in vascular surgery education. Journal of Vascular Surgery, 2010, 52, 1072-1080.	1.1	59
144	Long-term double integration of acceleration for position sensing and frequency domain system identification. , 2010, , .		10

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145	Toward improved sensorimotor integration and learning using upper-limb prosthetic devices. , 2010, 2010, 5077-80.		20
146	Progressive haptic and visual guidance for training in a virtual dynamic task. , 2010, , .		30
147	Discrimination of consonant articulation location by tactile stimulation of the forearm. , 2010, , .		15
148	Co-presentation of force cues for skill transfer via shared-control systems. , 2010, , .		2
149	Mathematical equations as executable models of mechanical systems. , 2010, , .		24
150	A Fully Automated System for the Preparation of Samples for Cryo-Electron Microscopy. , 2010, , .		0
151	Intermittency of slow arm movements increases in distal direction. , 2009, , .		4
152	Functionally biarticular control for smart prosthetics. , 2009, , .		6
153	Negative efficacy of fixed gain error reducing shared control for training in virtual environments. ACM Transactions on Applied Perception, 2009, 6, 1-21.	1.9	43
154	Expertise-Based Performance Measures in a Virtual Training Environment. Presence: Teleoperators and Virtual Environments, 2009, 18, 449-467.	0.6	26
155	Passive and Active Discrimination of Natural Frequency of Virtual Dynamic Systems. IEEE Transactions on Haptics, 2009, 2, 40-51.	2.7	9
156	Implementing Haptic Feedback Environments from High-Level Descriptions. , 2009, , .		4
157	Progressive shared control for training in virtual environments. , 2009, , .		38
158	Effects of magnitude and phase cues on human motor adaptation. , 2009, , .		7
159	Validation of a smooth movement model for a human reaching task. , 2009, , .		7
160	Visual versus haptic progressive guidance for training in a virtual dynamic task. , 2009, , .		9
161	Compact and low-cost tendon vibrator for inducing proprioceptive illusions. , 2009, , .		8
162	Impact of visual error augmentation methods on task performance and motor adaptation. , 2009, , .		16

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163	A low cost vibrotactile array to manage respiratory motion. , 2009, , .		4
164	Special Issue on Haptics, Tactile and Multimodal Interfaces. Journal of Computing and Information Science in Engineering, 2009, 9, .	2.7	0
165	Improved Haptic Fidelity Via Reduced Sampling Period With an FPGA-Based Real-Time Hardware Platform. Journal of Computing and Information Science in Engineering, 2009, 9, .	2.7	10
166	Design, Control and Performance of RiceWrist: A Force Feedback Wrist Exoskeleton for Rehabilitation and Training. International Journal of Robotics Research, 2008, 27, 233-251.	8.5	216
167	Haptic Interfaces. , 2008, , 25-73.		19
168	Comparison of robotic and clinical motor function improvement measures for sub-acute stroke patients. , 2008, , .		12
169	Passive and Active Kinesthetic Perception Just-noticeable-difference for Natural Frequency of Virtual Dynamic Systems. , 2008, , .		3
170	Towards Just Noticeable Differences for Natural Frequency of Manually Excited Virtual Dynamic Systems. , 2007, , .		0
171	Improved Haptic Fidelity via Reduced Sampling Period With an FPGA-Based Real-Time Hardware Platform. , 2007, , .		5
172	Disturbance Observer Based Closed Loop Force Control for Haptic Feedback. , 2007, , .		4
173	Design of a haptic arm exoskeleton for training and rehabilitation. IEEE/ASME Transactions on Mechatronics, 2006, 11, 280-289.	5.8	266
174	Assessing and Inducing Neuroplasticity With Transcranial Magnetic Stimulation and Robotics for Motor Function. Archives of Physical Medicine and Rehabilitation, 2006, 87, 59-66.	0.9	26
175	Special Issue on Novel Robotics and Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2006, 128, 1-2.	1.6	1
176	The RiceWrist: A Distal Upper Extremity Rehabilitation Robot for Stroke Therapy. , 2006, , 1437.		15
177	Shared Control in Haptic Systems for Performance Enhancement and Training. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2006, 128, 75-85.	1.6	129
178	Vision Based Force Sensing for Nanorobotic Manipulation. , 2006, , .		0
179	Experimental System Identification of Force Reflecting Hand Controller. , 2006, , .		0
180	Shared Control for Upper Extremity Rehabilitation in Virtual Environments. , 2005, , 1673.		2

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181	On the Ability of Humans to Haptically Identify and Discriminate Real and Simulated Objects. Presence: Teleoperators and Virtual Environments, 2005, 14, 366-376.	0.6	15
182	Transparency Extension in Haptic Interfaces via Adaptive Dynamics Cancellation. , 2005, , .		0
183	Virtual Lab for System Identification of an Electromechanical System. , 2005, , .		0
184	Design of a Haptic Arm Exoskeleton for Training and Rehabilitation. , 2004, , 1011.		2
185	Current Challenges in the Control of Haptic Interfaces and Bilateral Teleoperation Systems. , 2003, , 743.		1