Domenico Prattichizzo

List of Publications by Year
in descending order

266	8,507	71004	87275
papers	citations	43 h-index	74 g-index

275	275	275	6336
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flexible scheduling and tactile communication for humanâ€“robot collaboration. Robotics and Computer-Integrated Manufacturing, 2022, 73, 102233.	6.1	16
2	Analysis of postures for handwriting on touch screens without using tools. Scientific Reports, 2022, 12, 296.	1.6	5
3	Simultaneous control of natural and extra degrees of freedom by isometric force and electromyographic activity in the muscle-to-force null space. Journal of Neural Engineering, 2022, 19, 016004.	1.8	13
4	Design and Prototyping of an Underactuated Hand Exoskeleton With Fingers Coupled by a Gear-Based Differential. Frontiers in Robotics and AI, 2022, 9, 862340.	2.0	7
5	Design and Comparison of Haptic Policies for Human Guidance. , 2022, , .		0
6	Design, Development, and Control of a Hand/Wrist Exoskeleton for Rehabilitation and Training. IEEE Transactions on Robotics, 2022, 38, 1472-1488.	7.3	21
7	The Wavejoints: A Novel Methodology to Design Soft-Rigid Grippers Made by Monolithic 3D Printed Fingers with Adjustable Joint Stiffness. , 2022, , .		7
8	Compliant gripper design, prototyping, and modeling using screw theory formulation. International Journal of Robotics Research, 2021, 40, 55-71.	5.8	23
9	Design of Personalized Wearable Haptic Interfaces to Account for Fingertip Size and shape. IEEE Transactions on Haptics, 2021, 14, 266-272.	1.8	8
10	Robot Grasp Control. , 2021, , 1885-1893.		0
11	Discrete Cosserat Approach for Closed-Chain Soft Robots: Application to the Fin-Ray Finger. IEEE Transactions on Robotics, 2021, 37, 2083-2098.	7.3	24
12	Accessible Educational Resources for Teaching and Learning Robotics. Robotics, 2021, 10, 38.	2.1	16
13	Feasibility of TMS in patients with new generation cochlear implants. Clinical Neurophysiology, 2021, 132, 723-729.	0.7	3
14	Integration of a Passive Exoskeleton and a Robotic Supernumerary Finger for Grasping Compensation in Chronic Stroke Patients: The SoftPro Wearable System. Frontiers in Robotics and AI, 2021, 8, 661354.	2.0	6
15	Reducing Face-Touches to Limit COVID-19 Outbreak: an Overview of Solutions. , 2021, , .		3
16	Detachable Robotic Grippers for Human-Robot Collaboration. Frontiers in Robotics and AI, 2021, 8, 644532.	2.0	8
17	Generating Kinesthetic Feedback Using Self Contact and Velocity Scaling. , 2021, , .		1
18	Grasp Planning With a Soft Reconfigurable Gripper Exploiting Embedded and Environmental Constraints. IEEE Robotics and Automation Letters, 2021, 6, 5215-5222.	3.3	7

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19	Human augmentation by wearable supernumerary robotic limbs: review and perspectives. Progress in Biomedical Engineering, 2021, 3, 042005.	2.8	31
20	Aerial Tele-Manipulation with Passive Tool via Parallel Position/Force Control. Applied Sciences (Switzerland), 2021, 11, 8955.	1.3	4
21	Design of a Wearable Haptic Device for Hand Palm Cutaneous Feedback. Frontiers in Robotics and AI, 2021, 8, 706627.	2.0	3
22	Emerging of new bioartificial corticospinal motor synergies using a robotic additional thumb. Scientific Reports, 2021, 11, 18487.	1.6	9
23	Bilaterally Shared Haptic Perception for Human-Robot Collaboration in Grasping Operation. Journal of Robotics and Mechatronics, 2021, 33, 1104-1116.	0.5	5
24	The neural resource allocation problem when enhancing human bodies with extra robotic limbs. Nature Machine Intelligence, 2021, 3, 850-860.	8.3	34
25	Modeling a Sensorized Soft Layer for Adding Compliance to the Environment in Robotic Manipulation. Mechanisms and Machine Science, 2021, , 370-377.	0.3	4
26	A Human Gesture Mapping Method to Control a Multiâ€Functional Hand for Robotâ€Assisted Laparoscopic Surgery: The MUSHA Case. Frontiers in Robotics and AI, 2021, 8, 741807.	2.0	3
27	A Manually Actuated Robotic Supernumerary Finger To Recover Grasping Capabilities. , 2021, , .		3
28	A Modular Wearable Finger Interface for Cutaneous and Kinesthetic Interaction: Control and Evaluation. IEEE Transactions on Industrial Electronics, 2020, 67, 706-716.	5.2	39
29	Upper Body Pose Estimation Using Wearable Inertial Sensors and Multiplicative Kalman Filter. IEEE Sensors Journal, 2020, 20, 492-500.	2.4	33
30	Development of a Low-cost Glove for Thumb Rehabilitation: Design and Evaluation. , 2020, , .		1
31	Hand closure model for planning top grasps with soft robotic hands. International Journal of Robotics Research, 2020, 39, 1706-1723.	5.8	19
32	Preventing Undesired Face-Touches With Wearable Devices and Haptic Feedback. IEEE Access, 2020, 8, 139033-139043.	2.6	26
33	The Mag-Gripper: A Soft-Rigid Gripper Augmented With an Electromagnet to Precisely Handle Clothes. IEEE Robotics and Automation Letters, 2020, 5, 6591-6598.	3.3	8
34	Design, development, and preliminary evaluation of a highly wearable exoskeleton. , 2020, , .		9
35	Design, Development, and Control of a Tendon-actuated Exoskeleton for Wrist Rehabilitation and Training. , 2020, , .		10
36	Operation Identification by Shared Tactile Perception Based on Skin Vibration. , 2020, , .		4

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37	Wearable haptic anklets for gait and freezing improvement in Parkinsonâ€™s disease: a proof-of-concept study. Neurological Sciences, 2020, 41, 3643-3651.	0.9	12
38	Combining Wristband Display and Wearable Haptics for Augmented Reality. , 2020, , .		2
39	Hand Guidance Using Grasping Metaphor and Wearable Haptics. , 2020, , .		6
40	Cooperative Human-Robot Grasping With Extended Contact Patches. IEEE Robotics and Automation Letters, 2020, 5, 3121-3128.	3.3	2
41	Wearable Haptics for Remote Social Walking. IEEE Transactions on Haptics, 2020, 13, 761-776.	1.8	8
42	Design and prototyping softâ€“rigid tendon-driven modular grippers using interpenetrating phase composites materials. International Journal of Robotics Research, 2020, 39, 1635-1646.	5.8	45
43	Caring About the Human Operator: Haptic Shared Control for Enhanced User Comfort in Robotic Telemanipulation. IEEE Transactions on Haptics, 2020, 13, 197-203.	1.8	38
44	Grasping With the SoftPad, a Soft Sensorized Surface for Exploiting Environmental Constraints With Rigid Grippers. IEEE Robotics and Automation Letters, 2020, 5, 3884-3891.	3.3	6
45	Shared Haptic Perception for Human-Robot Collaboration. Lecture Notes in Computer Science, 2020, , 536-544.	1.0	6
46	Supernumerary Robotic Fingers to Compensate and Augment Human Manipulation Abilities. Biosystems and Biorobotics, 2020, , 188-194.	0.2	0
47	Robot Grasp Control. , 2020, , 1-8.		0
48	Instrumenting Hand-Held Surgical Drills with a Pneumatic Sensing Cover forÂHaptic Feedback. Lecture Notes in Computer Science, 2020, , 398-406.	1.0	2
49	Dexterous Manipulation. , 2020, , 1-8.		4
50	Design and Prototype of Supernumerary Robotic Finger (SRF) Inspired by Fin RayÂ® Effect for Patients Suffering from Sensorimotor Hand Impairment. , 2019, , .		18
51	Combining Haptic and Bang-Bang Braking Actions for Passive Robotic Walker Path Following. IEEE Transactions on Haptics, 2019, 12, 542-553.	1.8	11
52	A Mathematical Model of the Pneumatic Force Sensor for Robot-assisted Surgery. , 2019, , .		7
53	The Role of Closed-Loop Hand Control in Handshaking Interactions. IEEE Robotics and Automation Letters, 2019, 4, 878-885.	3.3	16
54	Humanâ€“Robot Team Interaction Through Wearable Haptics for Cooperative Manipulation. IEEE Transactions on Haptics, 2019, 12, 350-362.	1.8	16

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55	Using Wearable Haptics for Thermal Discrimination in Virtual Reality Scenarios. Lecture Notes in Electrical Engineering, 2019, , 144-148.	0.3	0
56	Cross-Modal Audiovisual Modulation of Corticospinal Motor Synergies in Professional Piano Players: A TMS Study during Motor Imagery. Neural Plasticity, 2019, 2019, 1-11.	1.0	4
57	Linear Integration of Tactile and Non-tactile Inputs Mediates Estimation of Fingertip Relative Position. Frontiers in Neuroscience, 2019, 13, 68.	1.4	8
58	Human-Robot Interaction Through Fingertip Haptic Devices for Cooperative Manipulation Tasks. , 2019, , .		1
59	Towards a Virtual Reality Interface for Remote Robotic Teleoperation. , 2019, , .		19
60	Command Acknowledge through Tactile Feedback Improves the Usability of an EMG-based Interface for the Frontalis Muscle. , 2019, , .		4
61	Exploiting Robot Hand Compliance and Environmental Constraints for Edge Grasps. Frontiers in Robotics and AI, 2019, 6, 135.	2.0	13
62	Presenting Surface Features Using a Haptic Ring: A Psychophysical Study on Relocating Vibrotactile Feedback. IEEE Transactions on Haptics, 2019, 12, 428-437.	1.8	8
63	Can Wearable Haptic Devices Foster the Embodiment of Virtual Limbs?. IEEE Transactions on Haptics, 2019, 12, 339-349.	1.8	28
64	A robotic microsurgical forceps for transoral laser microsurgery. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 321-333.	1.7	7
65	Evaluation of Grasp Stiffness inÂUnderactuated Compliant Hands Exploiting Environment Constraints. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2019, , 409-416.	0.3	3
66	Design of Multiple Wearable Robotic Extra Fingers for Human Hand Augmentation. Robotics, 2019, 8, 102.	2.1	20
67	Design Criteria for Wearable Robotic Extraâ€“Fingers with Underactuated Modular Structure. Mechanisms and Machine Science, 2019, , 509-517.	0.3	7
68	Human Rendezvous via Haptic Suggestion. Lecture Notes in Electrical Engineering, 2019, , 262-267.	0.3	1
69	The Closure Signature: A Functional Approach to Model Underactuated Compliant Robotic Hands. IEEE Robotics and Automation Letters, 2018, 3, 2206-2213.	3.3	21
70	Design and Evaluation of a Wearable Skin Stretch Device for Haptic Guidance. IEEE Robotics and Automation Letters, 2018, 3, 524-531.	3.3	59
71	Steering and Control of Miniaturized Untethered Soft Magnetic Grippers With Haptic Assistance. IEEE Transactions on Automation Science and Engineering, 2018, 15, 290-306.	3.4	57
72	Haptic Guidance in Dynamic Environments Using Optimal Reciprocal Collision Avoidance. IEEE Robotics and Automation Letters, 2018, 3, 265-272.	3.3	29

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73	A Three Revolute-Revolute-Spherical Wearable Fingertip Cutaneous Device for Stiffness Rendering. IEEE Transactions on Haptics, 2018, 11, 39-50.	1.8	56
74	Modeling and Prototyping of a Soft Prosthetic Hand Exploiting Joint Compliance and Modularity. , 2018, , .		13
75	Transparency-Optimal Passivity Layer Design for Time-Domain Control of Multi-DoF Haptic-Enabled Teleoperation. , 2018, , .		1
76	Rendering of Pressure and Textures Using Wearable Haptics in Immersive VR Environments. , 2018, , .		12
77	Sensory-motor augmentation of the robot with shared human perception. , 2018, , .		8
78	Efficient FEM-Based Simulation of Soft Robots Modeled as Kinematic Chains. , 2018, , .		29
79	The Tele-MAGMaS: An Aerial-Ground Comanipulator System. IEEE Robotics and Automation Magazine, 2018, 25, 66-75.	2.2	20
80	Operator Awareness in Humanâ€“Robot Collaboration Through Wearable Vibrotactile Feedback. IEEE Robotics and Automation Letters, 2018, 3, 4289-4296.	3.3	53
81	Grasp Stiffness Control in Robotic Hands Through Coordinated Optimization of Pose and Joint Stiffness. IEEE Robotics and Automation Letters, 2018, 3, 3952-3959.	3.3	22
82	A Bio-inspired Grasp Stiffness Control for Robotic Hands. Frontiers in Robotics and AI, 2018, 5, 89.	2.0	5
83	Combining Wearable Finger Haptics and Augmented Reality: User Evaluation Using an External Camera and the Microsoft HoloLens. IEEE Robotics and Automation Letters, 2018, 3, 4297-4304.	3.3	21
84	A Novel Pneumatic Force Sensor for Robot-Assisted Surgery. Lecture Notes in Computer Science, 2018, , 587-599.	1.0	8
85	Modeling and Prototyping of an Underactuated Gripper Exploiting Joint Compliance and Modularity. IEEE Robotics and Automation Letters, 2018, 3, 2854-2861.	3.3	43
86	Human Guidance: Suggesting Walking Pace Under Manual and Cognitive Load. Lecture Notes in Computer Science, 2018, , 416-427.	1.0	5
87	A Novel 3RRS Wearable Fingertip Cutaneous Device for Virtual Interaction. Lecture Notes in Electrical Engineering, 2018, , 63-65.	0.3	3
88	A Wearable Haptic Ring for the Control of Extra Robotic Fingers. Lecture Notes in Electrical Engineering, 2018, , 323-325.	0.3	5
89	Compensating Hand Function in Chronic Stroke Patients Through the Robotic Sixth Finger. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 142-150.	2.7	64
90	Experimental evaluation of magnified haptic feedback for robotâ€assisted needle insertion and palpation. International Journal of Medical Robotics and Computer Assisted Surgery, 2017, 13, e1809.	1.2	64

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91	Evaluation of Wearable Haptic Systems for the Fingers in Augmented Reality Applications. IEEE Transactions on Haptics, 2017, 10, 511-522.	1.8	89
92	Wearable Haptic Systems for the Fingertip and the Hand: Taxonomy, Review, and Perspectives. IEEE Transactions on Haptics, 2017, 10, 580-600.	1.8	486
93	A soft supernumerary robotic finger and mobile arm support for grasping compensation and hemiparetic upper limb rehabilitation. Robotics and Autonomous Systems, 2017, 93, 1-12.	3.0	35
94	High-gamma oscillations in the motor cortex during visuo-motor coordination: A tACS interferential study. Brain Research Bulletin, 2017, 131, 47-54.	1.4	36
95	Towards robotic MAGMaS: Multiple aerial-ground manipulator systems. , 2017, , .		21
96	GESTO: A Glove for Enhanced Sensing and Touching Based on Inertial and Magnetic Sensors for Hand Tracking and Cutaneous Feedback. IEEE Transactions on Human-Machine Systems, 2017, 47, 1066-1076.	2.5	61
97	Toward wearable supernumerary robotic fingers to compensate missing grasping abilities in hemiparetic upper limb. International Journal of Robotics Research, 2017, 36, 1414-1436.	5.8	52
98	Multicontact Bilateral Telemanipulation With Kinematic Asymmetries. IEEE/ASME Transactions on Mechatronics, 2017, 22, 445-456.	3.7	18
99	Cooperative Navigation for Mixed Humanâ€“Robot Teams Using Haptic Feedback. IEEE Transactions on Human-Machine Systems, 2017, 47, 462-473.	2.5	30
100	On Grasp Quality Measures: Grasp Robustness and Contact Force Distribution in Underactuated and Compliant Robotic Hands. IEEE Robotics and Automation Letters, 2017, 2, 329-336.	3.3	27
101	Design and control of a novel robotic microsurgical forceps for Transoral Laser Microsurgery. , 2017, , .		4
102	Robot team teleoperation for cooperative manipulation using wearable haptics. , 2017, , .		4
103	Teleoperation in cluttered environments using wearable haptic feedback. , 2017, , .		46
104	A Humanâ€“Robot Interaction Perspective on Assistive and Rehabilitation Robotics. Frontiers in Neurorobotics, 2017, 11, 24.	1.6	102
105	Walking Ahead: The Headed Social Force Model. PLoS ONE, 2017, 12, e0169734.	1.1	91
106	An EMG Interface for the Control of Motion and Compliance of a Supernumerary Robotic Finger. Frontiers in Neurorobotics, 2016, 10, 18.	1.6	40
107	Haptic Feedback for Microrobotics Applications: A Review. Frontiers in Robotics and AI, 2016, 3, .	2.0	31
108	Experimental evaluation of co-manipulated ultrasound-guided flexible needle steering. International Journal of Medical Robotics and Computer Assisted Surgery, 2016, 12, 219-230.	1.2	25

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109	Multi-contact bilateral telemanipulation using wearable haptics. , 2016, , .		5
110	Grasp quality evaluation in underactuated robotic hands. , 2016, , .		11
111	Cooperative aerial tele-manipulation with haptic feedback. , 2016, , .		26
112	When Helbing meets Laumond: The Headed Social Force Model. , 2016, , .		12
113	How to Map Human Hand Synergies onto Robotic Hands Using the SynGrasp Matlab Toolbox. Springer Series on Touch and Haptic Systems, 2016, , 195-209.	0.2	1
114	The Soft-SixthFinger: a Wearable EMG Controlled Robotic Extra-Finger for Grasp Compensation in Chronic Stroke Patients. IEEE Robotics and Automation Letters, 2016, 1, 1000-1006.	3.3	90
115	Haptic Assistive Bracelets for Blind Skier Guidance. , 2016, , .		21
116	Grasping. Springer Handbooks, 2016, , 955-988.	0.3	84
117	Sensory stimulation for human guidance in robot walkers: A comparison between haptic and acoustic solutions. , 2016, , .		6
118	Haptic wrist guidance using vibrations for Human-Robot teams. , 2016, , .		21
119	Evaluation of an electromagnetic system with haptic feedback for control of untethered, soft grippers affected by disturbances. , 2016, , .		11
120	Robot-assisted microsurgical forceps with haptic feedback for transoral laser microsurgery. , 2016, 2016, 5156-5159.		6
121	On Control Interfaces for the Robotic Sixth Finger. , 2016, , .		7
122	Fingertip force estimation via inertial and magnetic sensors in deformable object manipulation. , 2016, , .		11
123	Efficient nonlinear skin simulation for multi-finger tactile rendering. , 2016, , .		6
124	The hRing: A wearable haptic device to avoid occlusions in hand tracking. , 2016, , .		67
125	Design of a wearable skin stretch cutaneous device for the upper limb. , 2016, , .		40
126	Kinesthetic and vibrotactile haptic feedback improves the performance of laser microsurgery. , 2016, , .		12

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127	Towards a synergy framework across neuroscience and robotics: Lessons learned and open questions. Reply to comments on: â€œHand synergies: Integration of robotics and neuroscience for understanding the control of biological and artificial handsâ€• Physics of Life Reviews, 2016, 17, 54-60.	1.5	13
128	A perceptually-motivated deadband compression approach for cutaneous haptic feedback. , 2016, , .		6
129	Hand synergies: Integration of robotics and neuroscience for understanding the control of biological and artificial hands. Physics of Life Reviews, 2016, 17, 1-23.	1.5	191
130	Handâ€“toolâ€“tissue interaction forces in neurosurgery for haptic rendering. Medical and Biological Engineering and Computing, 2016, 54, 1229-1241.	1.6	11
131	Cutaneous Feedback of Fingertip Deformation and Vibration for Palpation in Robotic Surgery. IEEE Transactions on Biomedical Engineering, 2016, 63, 278-287.	2.5	169
132	c-Walker: A Cyber-Physical System for Ambient Assisted Living. Lecture Notes in Electrical Engineering, 2016, , 75-82.	0.3	0
133	Intuitive control of self-propelled microjets with haptic feedback. Journal of Micro-Bio Robotics, 2015, 10, 37-53.	2.1	16
134	Touch the virtual reality. , 2015, , .		40
135	Using inertial and magnetic sensors for hand tracking and rendering in wearable haptics. , 2015, , .		7
136	Modeling compliant grasps exploiting environmental constraints. , 2015, , .		9
137	Design guidelines for a wearable robotic extra-finger. , 2015, , .		7
138	Soft finger tactile rendering for wearable haptics. , 2015, , .		24
139	A passive guidance system for a robotic walking assistant using brakes. , 2015, , .		16
140	Evaluation of a predictive approach in steering the human locomotion via haptic feedback. , 2015, , .		10
141	SynGrasp: A MATLAB Toolbox for Underactuated and Compliant Hands. IEEE Robotics and Automation Magazine, 2015, 22, 52-68.	2.2	69
142	Using the robotic sixth finger and vibrotactile feedback for grasp compensation in chronic stroke patients. , 2015, , .		36
143	Cutaneous haptic feedback to ensure the stability of robotic teleoperation systems. International Journal of Robotics Research, 2015, 34, 1773-1787.	5.8	100
144	A force-based bilateral teleoperation framework for aerial robots in contact with the environment. , 2015, , .		20

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145	Navigation assistance and guidance of older adults across complex public spaces: the DALiÂapproach. Intelligent Service Robotics, 2015, 8, 77-92.	1.6	58
146	Design and development of a 3RRS wearable fingertip cutaneous device. , 2015, , .		62
147	Enhancing the Performance of Passive Teleoperation Systems via Cutaneous Feedback. IEEE Transactions on Haptics, 2015, 8, 397-409.	1.8	48
148	Digital Handwriting with a Finger or a Stylus: A Biomechanical Comparison. IEEE Transactions on Haptics, 2015, 8, 356-370.	1.8	17
149	Displaying Sensed Tactile Cues with a Fingertip Haptic Device. IEEE Transactions on Haptics, 2015, 8, 384-396.	1.8	31
150	Vibrotactile haptic feedback for intuitive control of robotic extra fingers. , 2015, , .		26
151	Human-Robot Formation Control via Visual and Vibrotactile Haptic Feedback. IEEE Transactions on Haptics, 2014, 7, 499-511.	1.8	36
152	An object-based mapping algorithm to control wearable robotic extra-fingers. , 2014, , .		18
153	Improving Transparency in Teleoperation by Means of Cutaneous Tactile Force Feedback. ACM Transactions on Applied Perception, 2014, 11, 1-16.	1.2	83
154	Wearable haptics and hand tracking via an RGB-D camera for immersive tactile experiences. , 2014, , .		23
155	Effects of Kinesthetic and Cutaneous Stimulation During the Learning of a Viscous Force Field. IEEE Transactions on Haptics, 2014, 7, 251-263.	1.8	13
156	Turning a near-hovering controlled quadrotor into a 3D force effector. , 2014, , .		44
157	The Sixth-Finger: A modular extra-finger to enhance human hand capabilities. , 2014, , .		66
158	Teleoperation of Steerable Flexible Needles by Combining Kinesthetic and Vibratory Feedback. IEEE Transactions on Haptics, 2014, 7, 551-556.	1.8	45
159	Sensory Subtraction in Robot-Assisted Surgery: Fingertip Skin Deformation Feedback to Ensure Safety and Improve Transparency in Bimanual Haptic Interaction. IEEE Transactions on Biomedical Engineering, 2014, 61, 1318-1327.	2.5	82
160	The flying hand: A formation of UAVs for cooperative aerial tele-manipulation. , 2014, , .		75
161	Steering of flexible needles combining kinesthetic and vibratory force feedback. , 2014, , .		6
162	The HapBand: A Cutaneous Device for Remote Tactile Interaction. Lecture Notes in Computer Science, 2014, , 284-291.	1.0	7

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163	A Data-Driven Approach to Remote Tactile Interaction: From a BioTac Sensor to any Fingertip Cutaneous Device. Lecture Notes in Computer Science, 2014, , 418-424.	1.0	4
164	HANDS.DVI: A Device-Independent Programming and Control Framework for Robotic Hands. Springer Tracts in Advanced Robotics, 2014, , 197-215.	0.3	0
165	HANDS.DVI: A DeVice-Independent Programming and Control Framework for Robotic HANDS. Springer Tracts in Advanced Robotics, 2014, , 197-215.	0.3	0
166	Simulation of Soft Finger Contact Model with Rolling Effects in Point-Contact Haptic Interfaces. Lecture Notes in Computer Science, 2014, , 326-333.	1.0	0
167	Task-Oriented Approach to Simulate a Grasping Action Through Underactuated Haptic Devices. Lecture Notes in Computer Science, 2014, , 249-257.	1.0	2
168	Robot Grasp Control. , 2014, , 1-9.		0
169	Virtual coupling design for stability and transparency of multi-device haptic systems with delays. , 2013, , .		3
170	SynGrasp: A MATLAB toolbox for grasp analysis of human and robotic hands. , 2013, , .		40
171	Vibrotactile stimuli for augmented haptic feedback in robot-assisted surgery. , 2013, , .		9
172	On Motion and Force Controllability of Precision Grasps with Hands Actuated by Soft Synergies. IEEE Transactions on Robotics, 2013, 29, 1440-1456.	7.3	80
173	Mapping Synergies From Human to Robotic Hands With Dissimilar Kinematics: An Approach in the Object Domain. IEEE Transactions on Robotics, 2013, 29, 825-837.	7.3	115
174	Towards Wearability in Fingertip Haptics: A 3-DoF Wearable Device for Cutaneous Force Feedback. IEEE Transactions on Haptics, 2013, 6, 506-516.	1.8	226
175	Uncalibrated visual compass from omnidirectional line images with application to attitude MAV estimation. , 2013, , .		1
176	Evaluation of grasp stiffness in underactuated compliant hands. , 2013, , .		17
177	Unicycle steering by brakes: A passive guidance support for an assistive cart. , 2013, , .		11
178	On the role of cutaneous force in teleoperation: subtracting kinesthesia from complete haptic feedback. , 2013, , .		5
179	Improving transparency in passive teleoperation by combining cutaneous and kinesthetic force feedback. , 2013, , .		11
180	Using Postural Synergies to Animate a Low-Dimensional Hand Avatar in Haptic Simulation. IEEE Transactions on Haptics, 2013, 6, 106-116.	1.8	20

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181	Visuohaptic Discrimination of 3D Gross Shape. Seeing and Perceiving, 2012, 25, 351-364.	0.4	2
182	Vibrotactile haptic feedback for human-robot interaction in leader-follower tasks. , 2012, , .		17
183	Object motion-decoupled internal force control for a compliant multifingered hand. , 2012, , .		10
184	Cutaneous Force Feedback as a Sensory Subtraction Technique in Haptics. IEEE Transactions on Haptics, 2012, 5, 289-300.	1.8	144
185	Cutaneous device for teleoperated needle insertion. , 2012, , .		10
186	A three DoFs wearable tactile display for exploration and manipulation of virtual objects. , 2012, , .		49
187	An accurate and robust visual-compass algorithm for robot-mounted omnidirectional cameras. Robotics and Autonomous Systems, 2012, 60, 1179-1190.	3.0	14
188	On a Class of Hierarchical Formations of Unicycles and Their Internal Dynamics. IEEE Transactions on Automatic Control, 2012, 57, 845-859.	3.6	21
189	On the manipulability ellipsoids of underactuated robotic hands with compliance. Robotics and Autonomous Systems, 2012, 60, 337-346.	3.0	75
190	Planar mirrors for image-based robot localization and 3-D reconstruction. Mechatronics, 2012, 22, 398-409.	2.0	31
191	Two Finger Grasping Simulation with Cutaneous and Kinesthetic Force Feedback. Lecture Notes in Computer Science, 2012, , 373-382.	1.0	53
192	Using Kinect for hand tracking and rendering in wearable haptics. , 2011, , .		138
193	KUKA Control Toolbox. IEEE Robotics and Automation Magazine, 2011, 18, 69-79.	2.2	45
194	On the role of hand synergies in the optimal choice of grasping forces. Autonomous Robots, 2011, 31, 235-252.	3.2	138
195	Force feedback in a piezoelectric linear actuator for neurosurgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2011, 7, 268-275.	1.2	37
196	Visibility maintenance via controlled invariance for leaderâ€“follower vehicle formations. Automatica, 2011, 47, 1060-1067.	3.0	29
197	A teleoperation system for micro-invasive brain surgery. Paladyn, 2010, 1, .	1.9	7
198	Observer design via Immersion and Invariance for vision-based leaderâ€“follower formation control. Automatica, 2010, 46, 148-154.	3.0	70

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199	RemoTouch: A system for remote touch experience. , 2010, , .		28
200	Maintaining connectivity among multiple agents in cyclic pursuit: A geometric approach. , 2010, , .		10
201	On the internal dynamics of formations of unicycle robots. , 2010, , .		0
202	Non-rigid formations of nonholonomic robots. , 2010, , .		2
203	KCT: a MATLAB toolbox for motion control of KUKA robot manipulators. , 2010, , .		21
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