Shigeki Sugano

List of Publications by Year
in descending order

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389	3,062	448610	406436
papers	citations	19 h-index	35 g-index

397	397	397	2105
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preliminary Study of Tactical-Level Interaction for Highly-Automated Vehicles: Its Application to Touchscreen Interface. IEEE Transactions on Intelligent Vehicles, 2023, 8, 1944-1956.	9.4	2
2	A Wheeled Robot Chain Control System for Underground Facilities Inspection Using Visible Light Communication and Solar Panel Receivers. IEEE/ASME Transactions on Mechatronics, 2022, 27, 180-189.	3.7	15
3	Performance evaluation of self-healable torque transmission mechanism using phase change of low-melting-point-metal and application to robot joints. Smart Materials and Structures, 2022, 31, 015040.	1.8	1
4	Utilization of Image/Force/Tactile Sensor Data for Object-Shape-Oriented Manipulation: Wiping Objects With Turning Back Motions and Occlusion. IEEE Robotics and Automation Letters, 2022, 7, 968-975.	3.3	5
5	Multi-Fingered In-Hand Manipulation With Various Object Properties Using Graph Convolutional Networks and Distributed Tactile Sensors. IEEE Robotics and Automation Letters, 2022, 7, 2102-2109.	3.3	18
6	Reactive, Proactive, and Inducible Proximal Crowd Robot Navigation Method Based on Inducible Social Force Model. IEEE Robotics and Automation Letters, 2022, 7, 3922-3929.	3.3	14
7	A Robotic Grasping State Perception Framework With Multi-Phase Tactile Information and Ensemble Learning. IEEE Robotics and Automation Letters, 2022, 7, 6822-6829.	3.3	6
8	Development and Evaluation of a Backdrivable Vane-Type Rotary Actuator Using Magnetorheological Fluids. IEEE/ASME Transactions on Mechatronics, 2022, , 1-11.	3.7	3
9	A Wearable Fingertip Cutaneous Haptic Device with Continuous Omnidirectional Motion Feedback. , 2022, , .		0
10	Detection of Slip from Vision and Touch. , 2022, , .		8
11	Programming Stepwise Motility into a Sheet of Paper Using Inkjet Printing. Advanced Intelligent Systems, 2021, 3, 2000153.	3.3	4
12	Development of a Situational Awareness Estimation Model Considering Traffic Environment for Unscheduled Takeover Situations. International Journal of Intelligent Transportation Systems Research, 2021, 19, 167-181.	0.6	2
13	Toward Healthâ€"Related Accident Prevention: Symptom Detection and Intervention Based on Driver Monitoring and Verbal Interaction. IEEE Open Journal of Intelligent Transportation Systems, 2021, 2, 240-253.	2.6	6
14	Investigation on image signal receiving performance of photodiodes and solar panel detectors in an underground facility visible light communication system. Optics Express, 2021, 29, 692.	1.7	6
15	Basic Input-Output Gain Tuning System Based on Control Input Histogram Leveling for Human-Operated Machines. IEEE/ASME Transactions on Mechatronics, 2021, , 1-1.	3.7	1
16	Extraction of Shoulder Parts to Avoid Heavy Load Based on Pain While Walking with Backpack*. , 2021, , .		0
17	Gait Phase Detection Based on Muscle Deformation with Static Standing-Based Calibration. Sensors, 2021, 21, 1081.	2.1	4
18	How to Select and Use Tools? : Active Perception of Target Objects Using Multimodal Deep Learning. IEEE Robotics and Automation Letters, 2021, 6, 2517-2524.	3.3	25

#	Article	IF	Citations
19	Repeated exposure to tripping like perturbations elicits more precise control and lower toe clearance of the swinging foot during steady walking. Human Movement Science, 2021, 76, 102775.	0.6	5
20	Tool-Use Model to Reproduce the Goal Situations Considering Relationship Among Tools, Objects, Actions and Effects Using Multimodal Deep Neural Networks. Frontiers in Robotics and AI, 2021, 8, 748716.	2.0	1
21	EPMâ€“MRE: Electropermanent Magnetâ€“Magnetorheological Elastomer for Soft Actuation System and Its Application to Robotic Grasping. IEEE Robotics and Automation Letters, 2021, 6, 8181-8188.	3.3	10
22	A situational understanding enhancer based on augmented visual prompts for teleoperation using a multi-monitor system. Automation in Construction, 2021, 131, 103893.	4.8	3
23	Investigation of Relationship Between Multi-Point Mechanical Stimuli on Shoulder and Overall Pain on Backpack Wearers. , 2021, , .		0
24	Feasibility Evaluation of Mixed Reality Obstacles on Treadmill using HoloLens to Elicit Real Obstacle Negotiation. , 2021, , .		2
25	SCT-CNN: A Spatio-Channel-Temporal Attention CNN for Grasp Stability Prediction. , 2021, , .		11
26	A framework of physically interactive parameter estimation based on active environmental groping for safe disaster response work. ROBOMECH Journal, 2021, 8, .	0.9	0
27	Bayesian Estimation of Model Parameters of Equivalent Circuit Model for Detecting Degradation Parts of Lithium-Ion Battery. IEEE Access, 2021, 9, 159699-159713.	2.6	0
28	EEG-based System Using Deep Learning and Attention Mechanism for Driver Drowsiness Detection. , 2021, , .		5
29	Object Picking Using a Two-Fingered Gripper Measuring the Deformation and Slip Detection Based on a 3-Axis Tactile Sensing. , 2021, , .		3
30	"Safe Skin" - A Low-Cost Capacitive Proximity-Force-Fusion Sensor for Safety in Robots. , 2021, , .		1
31	Development of a Permanent Magnet Elastomer (PME) Infused Soft Robot Skin for Tactile Sensing. , 2021, , .		3
32	A Multi-Fingered Robot Hand with Remote Center of Motion Mechanisms for Covering Joints with Soft Skin. , 2021, , .		2
33	Morphology Specific Stepwise Learning of In-Hand Manipulation With a Four-Fingered Hand. IEEE Transactions on Industrial Informatics, 2020, 16, 433-441.	7.2	6
34	A Preliminary Study of Interactive Navigation Framework with Situation-Adaptive Multimodal Inducement: Pass-By Scenario. International Journal of Social Robotics, 2020, 12, 567-588.	3.1	17
35	Cognitive untunneling multi-view system for teleoperators of heavy machines based on visual momentum and saliency. Automation in Construction, 2020, 110, 103047.	4.8	12
36	Human-Centered Intervention Based on Tactical-Level Input in Unscheduled Takeover Scenarios for Highly-Automated Vehicles. International Journal of Intelligent Transportation Systems Research, 2020, 18, 451-460.	0.6	7

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37	Environmental camera placements for skilled operators in unmanned construction. Automation in Construction, 2020, 119, 103294.	4.8	4
38	End-to-End Tactile Feedback Loop: From Soft Sensor Skin Over Deep GRU-Autoencoders to Tactile Stimulation. IEEE Robotics and Automation Letters, 2020, 5, 6467-6474.	3.3	3
39	An Experimental Analysis of Pipe Inspection using Solar Panel Receiver for Visible Light Communication and Energy Harvesting. , 2020, , .		3
40	Gait event detection based on inter-joint coordination using only angular information. Advanced Robotics, 2020, 34, 1190-1200.	1.1	6
41	Development of a Vacuum Suction Cup by Applying Magnetorheological Elastomers for Objects with Flat Surfaces. , 2020, , .		6
42	Characterization of shoulder load for backpack shoulder strap design based on the relationship between interface pressure and shoulder pain. , 2020, , .		4
43	Improvements on a Sensitivity Adjustable 3-Axis Soft Skin Sensor with an Electromagnet. , 2020, , .		2
44	Trajectory Tracking of Wheeled Mobile Robots Using Z-Number Based Fuzzy Logic. IEEE Access, 2020, 8, 18426-18441.	2.6	30
45	A Multimodal, Adjustable Sensitivity, Digital 3-Axis Skin Sensor Module. Sensors, 2020, 20, 3128.	2.1	7
46	Deep GRU-ensembles for active tactile texture recognition with soft, distributed skin sensors in dynamic contact scenarios. , 2020, , .		3
47	Preliminary study of a separative shared control scheme focusing on control-authority and attention allocation for multi-limb disaster response robots. Advanced Robotics, 2020, 34, 575-591.	1.1	4
48	Ephemeral-Cyber-Physical System: A Cloud-Like CPS Using Shared Devices in Open IoT. IEEE Systems Journal, 2020, 14, 5176-5186.	2.9	7
49	Autonomous Mobile Robot Moving Through Static Crowd: Arm with One-DoF and Hand with Involute Shape to Maneuver Human Position. Journal of Robotics and Mechatronics, 2020, 32, 59-67.	0.5	3
50	Development of an Abnormal Sign Detection System based on Driver Monitoring and Voice Interaction for Preventing Medical-Condition-Caused Car Accidents. , 2020, , .		4
51	A Prototype Power Transmission System with Backdrivability and Responsiveness using Magnetorheological Fluid Direction Converter and Clutch. , 2020, , .		3
52	Stable In-Grasp Manipulation with a Low-Cost Robot Hand by Using 3-Axis Tactile Sensors with a CNN. , 2020, , .		11
53	Computational Design of Balanced Open Link Planar Mechanisms with Counterweights from User Sketches. , 2020, , .		0
54	Development of a Lightweight Deformable Surface Mechanism (DSM) by Applying Shape-Memory Alloy (SMA) and the Sponge for Handling Objects. , 2020, , .		1

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55	Variable In-Hand Manipulations for Tactile-Driven Robot Hand via CNN-LSTM. , 2020, , .		7
56	Gait Training Robot with Intermittent Force Application based on Prediction of Minimum Toe Clearance. , 2020, , .		2
57	Wiping 3D-objects using Deep Learning Model based on Image/Force/Joint Information. , 2020, , .		8
58	Development and Evaluation of a Linear Series Clutch Actuator for Vertical Joint Application with Static Balancing. , 2020, , .		0
59	Experimental Investigation of Optimum and Allowable Range of Side Views for Teleoperated Digging and Release Works by Using Actual Construction Machinery. , 2019, , .		4
60	Morphology-Specific Convolutional Neural Networks for Tactile Object Recognition with a Multi-Fingered Hand. , 2019, , .		18
61	A Preliminary Experimental Analysis of In-Pipe Image Transmission Based on Visible Light Relay Communication. Sensors, 2019, 19, 4760.	2.1	6
62	Development of self-healing linear actuator unit using thermoplastic resin*. Advanced Robotics, 2019, 33, 1235-1247.	1.1	5
63	Development of Anti-Sedimentation Magnetorheological Fluids and Its Implementation to MR Damper. , 2019, , .		8
64	A Driver Situational Awareness Estimation System Based on Standard Glance Model for Unscheduled Takeover Situations. , 2019, , .		8
65	Prediction Algorithm of Parameters of Toe Clearance in the Swing Phase. Applied Bionics and Biomechanics, 2019, 2019, 1-10.	0.5	4
66	Derivation of an Optimum and Allowable Range of Pan and Tilt Angles in External Sideway Views for Grasping and Placing Tasks in Unmanned Construction Based on Human Object Recognition. , 2019, , .		2
67	Computational Design of Statically Balanced Planar Spring Mechanisms. IEEE Robotics and Automation Letters, 2019, 4, 4438-4444.	3.3	14
68	Development of Virtual Pipe Simulation System for Inspection Robot Design. Proceedings of the Design Society International Conference on Engineering Design, 2019, 1, 3611-3620.	0.6	2
69	A Coordinated Wheeled Gas Pipeline Robot Chain System Based on Visible Light Relay Communication and Illuminance Assessment. Sensors, 2019, 19, 2322.	2.1	8
70	Soft Magnetic Powdery Sensor for Tactile Sensing. Sensors, 2019, 19, 2677.	2.1	15
71	Development of Human-Like Driving Decision Making Model based on Human Brain Mechanism. , 2019, , .		1
72	A Preliminary Experimental Study on Control Technology of Pipeline Robots based on Visible Light Communication. , 2019, , .		6

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73	Real-time Liquid Pouring Motion Generation: End-to-End Sensorimotor Coordination for Unknown Liquid Dynamics Trained with Deep Neural Networks. , 2019, , .		4
74	A Soft, Distributed, Digital 3-axis Skin Sensor Employing a Hybrid Permanent-Adjustable Magnetic Field. , 2019, , .		1
75	Implementation of a Remote Center of Motion Robot Finger with Tactile Sensors in the Joints. , 2019, , .		2
76	Sequential clustering for tactile image compression to enable direct adaptive feedback. , 2019, , .		0
77	Looking Back and Ahead: Adaptation and Planning by Gradient Descent. , 2019, , .		0
78	Development of a 3-axis Human Fingertip Tactile Sensor with an Ortho-Planar Spring. , 2019, , .		1
79	Response Obligation Estimation That Considers Users' Repetitive Utterances using Knowledge-Guided Random Forest. , 2019, , .		0
80	Magnetic 3-axis Soft and Sensitive Fingertip Sensors Integration for the iCub Humanoid Robot. , 2019, , .		2
81	Robot Finger with Remote Center of Motion Mechanism for Covering Joints with Thick Skin. , 2019, , .		4
82	Continuous Sensing Ability of Robot Finger Joints with Tactile Sensors. , 2019, , .		1
83	One-DOF Wire-Driven Robot Assisting Both Hip and Knee Flexion Motion. Journal of Robotics and Mechatronics, 2019, 31, 135-142.	0.5	3
84	Experimental derivation of the optimum and suitable range in sideways views for digging and releasing in unmanned construction. Transactions of the JSME (in Japanese), 2019, 85, 19-00066-19-00066.	0.1	1
85	Achieving Humanâ€“Robot Collaboration with Dynamic Goal Inference by Gradient Descent. Lecture Notes in Computer Science, 2019, , 579-590.	1.0	3
86	Development of a 3-axis Human Fingertip Tactile Sensor Based on Distributed Hall Effect Sensors. , 2019, , .		3
87	Estimating Driver Workload with Systematically Varying Traffic Complexity Using Machine Learning: Experimental Design. Advances in Intelligent Systems and Computing, 2018, , 106-111.	0.5	9
88	Estimating wrist joint angle with limited skin deformation information. Journal of Biomechanical Science and Engineering, 2018, 13, 17-00596-17-00596.	0.1	6
89	A New Silicone Structure for uSkinâ€”A Soft, Distributed, Digital 3-Axis Skin Sensor and Its Integration on the Humanoid Robot iCub. IEEE Robotics and Automation Letters, 2018, 3, 2584-2591.	3.3	85
90	Learning to Achieve Different Levels of Adaptability for Humanâ€“Robot Collaboration Utilizing a Neuro-Dynamical System. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 712-725.	2.6	11

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91	Large Range Impedance Shaping for Physical Human Robot Interaction Through Light Quantity Measurement Based Torque Regulation. IEEE Robotics and Automation Letters, 2018, 3, 187-194.	3.3	0
92	Evaluation of Series Clutch Actuators With a High Torque-to-Weight Ratio for Open-Loop Torque Control and Collision Safety. IEEE Robotics and Automation Letters, 2018, 3, 297-304.	3.3	9
93	Covering a Robot Fingertip With uSkin: A Soft Electronic Skin With Distributed 3-Axis Force Sensitive Elements for Robot Hands. IEEE Robotics and Automation Letters, 2018, 3, 124-131.	3.3	104
94	Evaluation of Compensatory Movement by Shoulder Joint Torque during Gain Adjustment of a Powered Prosthetic Wrist Joint. , 2018, 2018, 1891-1894.		0
95	Intermittent Force Application of Wire-Driven Gait Training Robot to Encourage User to Learn an Induced Gait. , 2018, , .		1
96	Machine Learning Based Skill-Level Classification for Personal Mobility Devices Using Only Operational Characteristics. , 2018, , .		1
97	Development of Driving Intention Prediction System Based on Human Cognitive Mechanism. , 2018, , .		2
98	Printed self-oscillatory mechanism inspired by an electric bell. , 2018, , .		0
99	Versatile In-Hand Manipulation of Objects with Different Sizes and Shapes Using Neural Networks. , 2018, , .		6
100	Tool-Use Model Considering Tool Selection by a Robot Using Deep Learning. , 2018, , .		11
101	Dynamic Motion Generation by Flexible-Joint Robot based on Deep Learning using Images. , 2018, , .		1
102	Detecting Features of Tools, Objects, and Actions from Effects in a Robot using Deep Learning. , 2018, , .		2
103	Investigation of Effective Intensity of Static Stretching Exercise Based on Spring-Pot Viscoelastic Model: Intensity Based on Maximum Tolerance Joint Torque Affects Viscoelastic Ratio of Muscle During Static Stretching. , 2018, , .		0
104	Communicating Directional Intent in Robot Navigation using Projection Indicators. , 2018, , .		22
105	Prediction of Minimum Toe Clearance with a Radial Basis Function Network at the Start of the Swing Phase. , 2018, 2018, 1664-1667.		1
106	A Preliminary Study of a Control Framework for Forearm Contact During Robot Navigation. , 2018, , .		4
107	Object Recognition Through Active Sensing Using a Multi-Fingered Robot Hand with 3D Tactile Sensors. , 2018, , .		24
108	An Adjustable Force Sensitive Sensor with an Electromagnet for a Soft, Distributed, Digital 3-axis Skin Sensor. , 2018, , .		9

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109	An Automatic Tracked Robot Chain System for Gas Pipeline Inspection and Maintenance Based on Wireless Relay Communication. , 2018, , .		4
110	Continuous Wrist Joint Control Using Muscle Deformation Measured on Forearm Skin. , 2018, , .		5
111	Multiclass Classification of Driver Perceived Workload Using Long Short-Term Memory based Recurrent Neural Network. , 2018, , .		20
112	Tactical-Level Input with Multimodal Feedback for Unscheduled Takeover Situations in Human-Centered Automated Vehicles. , 2018, , .		9
113	Preliminary Design of a Pseudo-Inertia Adjustable Mechanism Based on Bidirectional Releasing of Stored Kinetic Energy. , 2018, , .		4
114	Modeling and Simulation of FLC-based Navigation Algorithm for Small Gas Pipeline Inspection Robot. , 2018, , .		6
115	Dielectric Elastomer Actuators with Carbon Nanotube Electrodes Painted with a Soft Brush. Actuators, 2018, 7, 51.	1.2	46
116	Effect of the timing of force application on the toe trajectory in the swing phase for a wire-driven gait assistance robot. Mechanical Engineering Journal, 2018, 5, 17-00660-17-00660.	0.2	3
117	Compound locomotion control system combining crawling and walking for multi-crawler multi-arm robot to adapt unstructured and unknown terrain. ROBOMECH Journal, 2018, 5, .	0.9	6
118	A Wearable Three-Axis Tactile Sensor for Human Fingertips. IEEE Robotics and Automation Letters, 2018, 3, 4313-4320.	3.3	9
119	Variable Interlock Mechanism Joining Shoulder Rotation and Elbow Flexion for Body-Powered Upper Limb Prostheses. , 2018, , .		2
120	Effective input order of dynamics learning tree. Advanced Robotics, 2018, 32, 122-136.	1.1	2
121	A Basic Framework of View Systems Allowing Teleoperators to Pre-Acquire Spatial Knowledge from Survey and Route Perspectives. Presence: Teleoperators and Virtual Environments, 2018, 27, 309-332.	0.3	2
122	A Prototype of a Small Tracked Robot for Gas Pipeline Inspection and Maintenance. Advances in Intelligent Systems and Computing, 2018, , 137-142.	0.5	0
123	An interactive haptic force feedback interface for semi-automatic control in highly-automated vehicles. Transactions of the JSME (in Japanese), 2018, 84, 18-00008-18-00008.	0.1	0
124	Learning to Perceive the World as Probabilistic or Deterministic via Interaction With Others: A Neuro-Robotics Experiment. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 830-848.	7.2	36
125	Tool-body assimilation model considering grasping motion through deep learning. Robotics and Autonomous Systems, 2017, 91, 115-127.	3.0	32
126	Printed Paper Robot Driven by Electrostatic Actuator. IEEE Robotics and Automation Letters, 2017, 2, 1001-1007.	3.3	44

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127	Preliminary measurement and analysis of microwave transmission attenuation in small gas pipeline. , 2017, , .		1
128	Condition-Based Less-Error Data Selection for Robust and Accurate Mass Measurement in Large-Scale Hydraulic Manipulators. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1820-1830.	2.4	10
129	Repeatable Folding Task by Humanoid Robot Worker Using Deep Learning. IEEE Robotics and Automation Letters, 2017, 2, 397-403.	3.3	153
130	A multimodal human-machine interface enabling situation-adaptive control inputs for highly automated vehicles. , 2017, , .		20
131	Dynamic motion learning for multi-DOF flexible-joint robots using activeâ€“passive motor babbling through deep learning. Advanced Robotics, 2017, 31, 1002-1015.	1.1	16
132	Change detection technique for muscle tone during static stretching by continuous muscle viscoelasticity monitoring using wearable indentation tester. , 2017, 2017, 1686-1691.		1
133	Timing of intermittent torque control with wire-driven gait training robot lifting toe trajectory for trip avoidance. , 2017, 2017, 320-325.		3
134	Proposal and Preliminary Feasibility Study of a Novel Toroidal Magnetorheological Piston. IEEE/ASME Transactions on Mechatronics, 2017, 22, 657-668.	3.7	15
135	Development of a prototype electrically-driven four-arm four-flipper disaster response robot OCTOPUS. , 2017, , .		4
136	Probabilistic neural network applied to eye tracking control to alter the direction of an endoscopic manipulator. Mechanical Engineering Journal, 2017, 4, 15-00568-15-00568.	0.2	4
137	A pre-offering view system for teleoperators of heavy machines to acquire cognitive maps. , 2017, , .		2
138	A preliminary study on a groping framework without external sensors to recognize near-environmental situation for risk-tolerance disaster response robots. , 2017, , .		2
139	Simultaneous printing of multiple origami structures. , 2017, , .		0
140	Swinging paper actuator driven by conduction electrohydrodynamics. , 2017, , .		2
141	Development of a tendon-driven mechanism with liquid circulation system for improving wear resistance. , 2017, , .		1
142	A semi-autonomous compound motion pattern using multi-flipper and multi-arm for unstructured terrain traversal. , 2017, , .		2
143	A reliable communication and localization method for gas pipeline robot chain based on RSSI theory. , 2017, , .		3
144	Compound manipulation mode for improving task-ability of multi-arm multi-flipper crawler robot. , 2017, , .		1

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145	Design & implementation of an emergency stop function for on-power clutch based adjustable torque limiters. , 2017, , .		1
146	Exploiting the slip behavior of friction based clutches for safer adjustable torque limiters. , 2017, , .		6
147	Development of an optical sensor based torque regulation system with friction observer. , 2017, , .		0
148	Wayang Robot with Gamelan Music Pattern Recognition. Journal of Robotics and Mechatronics, 2017, 29, 137-145.	0.5	3
149	Similarity evaluation of multiple muscles hardness change due to static stretching using wearable indentation testers: A pilot study. , 2017, , .		0
150	Synthesis of high-strength and electronically conductive triple network gels with self-healing properties by the restraint method. , 2017, , .		0
151	Mixing Actual and Predicted Sensory States Based on Uncertainty Estimation for Flexible and Robust Robot Behavior. Lecture Notes in Computer Science, 2017, , 11-18.	1.0	1
152	A Wearable Sensor for Fingertips That Can Measure 3-Axis Force. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2017, 2017, 1A1-O03.	0.0	2
153	Improving IMES Localization Accuracy by Integrating Dead Reckoning Information. Sensors, 2016, 16, 163.	2.1	5
154	Design and Characterization of a Three-Axis Hall Effect-Based Soft Skin Sensor. Sensors, 2016, 16, 491.	2.1	78
155	Joint angle estimation using the distribution of the muscle bulge on the forearm skin surface of an upper limb amputee. , 2016, , .		3
156	Gaze pattern analysis in multi-display systems for teleoperated disaster response robots. , 2016, , .		4
157	Analysis of operation strategy in a multi-operator control system for four-arm disaster response robot OCTOPUS. , 2016, , .		2
158	Emergence of interactive behaviors between two robots by prediction error minimization mechanism. , 2016, , .		7
159	Analysis of imitative interactions between humans and a robot with a neuro-dynamical system. , 2016, , .		1
160	A hand gesture based driver-vehicle interface to control lateral and longitudinal motions of an autonomous vehicle. , 2016, , .		15
161	Performance evaluation of a compliant magnetorheological piston actuator. , 2016, , .		1
162	SNR modeling and material dependency test of a low-cost and simple to fabricate 3D force sensor for soft robotics. , 2016, , .		4

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163	A modular, distributed, soft, 3-axis sensor system for robot hands. , 2016, , .		43
164	A study on fingertip designs and their influences on performing stable prehension for robot hands. , 2016, , .		5
165	Design optimisation and performance evaluation of a toroidal magnetorheological hydraulic piston head. , 2016, , .		2
166	Position-force combination control with passive flexibility for versatile in-hand manipulation based on posture interpolation. , 2016, , .		5
167	Executing optimized throwing motion on robot arm with free joint. Advanced Robotics, 2016, 30, 1571-1578.	1.1	4
168	Intent communication in navigation through the use of light and screen indicators. , 2016, , .		17
169	Development of robotic fingertip morphology for enhanced manipulation stability. , 2016, , .		7
170	A haptic feedback driver-vehicle interface for controlling lateral and longitudinal motions of autonomous vehicles. , 2016, , .		5
171	An iterative design methodology for the performance optimisation of magnetorheological piston head configurations. , 2016, , .		2
172	Fundamental development of a virtual reality simulator for four-arm disaster rescue robot OCTOPUS. , 2016, , .		7
173	Exploring the use of light and display indicators for communicating directional intent. , 2016, , .		14
174	Wrist joint angle estimation by means of muscle bulge based on deformation of the forearm skin surface. , 2016, , .		1
175	Body Model Transition by Tool Grasping During Motor Babbling Using Deep Learning and RNN. Lecture Notes in Computer Science, 2016, , 166-174.	1.0	0
176	A combined approach of Doppler and carrier-based hyperbolic positioning with a multi-channel GPS-pseudolite for indoor localization of robots. , 2016, , .		7
177	Relationship between magnitude of applied torque in pre-swing phase and gait change for prevention of trip in elderly people. , 2016, 2016, 6154-6157.		1
178	Closed loop trajectory optimization based on reverse time tree. International Journal of Control, Automation and Systems, 2016, 14, 1404-1412.	1.6	6
179	Relation between magnitude of applied torque during pre-swing phase and toe clearance change to prevent trip of elderly people. , 2016, , .		0
180	An Automatic Basic I/O Gain Tuning System Based on Shaping Control Input Histogram for Human-Machine Systems. Journal of the Robotics Society of Japan, 2016, 34, 56-64.	0.0	0

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181	Pupil variation for use in zoom control. , 2016, , .		3
182	Development of a dipping wire method to improve the abrasion resistance of a plastic wire. , 2016, , .		5
183	Design of four-arm four-crawler disaster response robot OCTOPUS. , 2016, , .		21
184	Tree Based Trajectory Optimization Based on Local Linearity of Continuous Non-Linear Dynamics. IEEE Transactions on Automatic Control, 2016, 61, 2610-2617.	3.6	9
185	Visibility Enhancement using Autonomous Multicamera Controls with Situational Role Assignment for Teleoperated Work Machines. Journal of Field Robotics, 2016, 33, 802-824.	3.2	18
186	Pupil Variation Applied to the Eye Tracking Control of an Endoscopic Manipulator. IEEE Robotics and Automation Letters, 2016, 1, 531-538.	3.3	28
187	An image processing method for changing endoscope direction based on pupil movement. ROBOMECH Journal, 2016, 3, .	0.9	2
188	Development of an endoscopic manipulator control system with intention recognition based on pupil movement. , 2015, , .		0
189	First Results of Tilted Capacitive Sensors to Detect Shear Force. Procedia Computer Science, 2015, 76, 101-106.	1.2	2
190	Methods for improving IMES transmitters: Transmission diversity, variable beamwidth antenna, and leaky coaxial cable. , 2015, , .		3
191	Interpolation control posture design for in-hand manipulation. , 2015, , .		6
192	Modelling and simulation of a new magnetorheological linear device. , 2015, , .		3
193	Robust in-hand manipulation of variously sized and shaped objects. , 2015, , .		15
194	Estimating a joint angle by means of muscle bulge movement along longitudinal direction of the forearm. , 2015, , .		11
195	Predictive learning with uncertainty estimation for modeling infants' cognitive development with caregivers: A neurorobotics experiment. , 2015, , .		1
196	Hyperbolic Positioning with Antenna Arrays and Multi-Channel Pseudolite for Indoor Localization. Sensors, 2015, 15, 25157-25175.	2.1	27
197	Tool-Body Assimilation Model Based on Body Babbling and Neurodynamical System. Mathematical Problems in Engineering, 2015, 2015, 1-15.	0.6	10
198	An investigation into the social acceptance of using contact for inducing an obstructing human. , 2015, , .		4

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199	Using contact-based inducement for efficient navigation in a congested environment. , 2015, , .		11
200	Accurate indoor positioning using IMES radio. , 2015, , .		3
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