

Satoshi Tadokoro

List of Publications by Year in descending order

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56
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56
times ranked

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#	ARTICLE	IF	CITATIONS
1	Stabilized Controller for Jet Actuated Cantilevered Pipe Using Damping Effect of an Internal Flowing Fluid. IEEE Access, 2022, 10, 5238-5249.	4.2	13
2	Permanent-Magnetically Amplified Brake Mechanism Compensated and Stroke-Shortened by a Multistage Nonlinear Spring. IEEE Robotics and Automation Letters, 2022, 7, 6266-6273.	5.1	1
3	Electrocardiogram Measurement and Emotion Estimation of Working Dogs. IEEE Robotics and Automation Letters, 2022, 7, 4047-4054.	5.1	1
4	Highly Articulated Tube Mechanism With Variable Stiffness and Shape Restoration Using a Pneumatic Actuator. IEEE Robotics and Automation Letters, 2022, 7, 3664-3671.	5.1	4
5	Realizing Large Shape Deformations of a Flying Continuum Robot With a Passive Rotating Nozzle Unit That Enlarges Jet Directions in Three-Dimensional Space. IEEE Access, 2022, 10, 37646-37657.	4.2	7
6	Fluid Jet Actuated Flying Continuum Robots. Journal of the Robotics Society of Japan, 2022, 40, 310-314.	0.1	0
7	Cooperative Towing by Multi-Robot System That Maintains Welding Cable in Optimized Shape. IEEE Robotics and Automation Letters, 2022, 7, 11783-11790.	5.1	2
8	Pneumatic Driven Hollow Variable Stiffness Mechanism Aiming Non-Contact Insertion of Telescopic Guide Tubes. , 2021, , .		5
9	Semantic Mapping of Construction Site From Multiple Daily Airborne LiDAR Data. IEEE Robotics and Automation Letters, 2021, 6, 3073-3080.	5.1	9
10	Sensory Equivalence Conversion of High-Frequency Vibrotactile Signals using Intensity Segment Modulation Method for Enhancing Audiovisual Experience. , 2021, , .		2
11	2-DOF Spherical Parallel Mechanism Capable of Biaxial Swing Motion with Active Arc Sliders. IEEE Robotics and Automation Letters, 2021, 6, 4680-4687.	5.1	4
12	Knowledge Acquisition from Pedestrian Flow Analysis using Sparse Mobile Probe Data. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	3.4	0
13	Internally-Balanced Displacement-Force Converter for Stepless Control of Spring Deformation Compensated by Cam With Variable Pressure Angle. IEEE Robotics and Automation Letters, 2021, 6, 4576-4583.	5.1	2
14	Two-Sheet Type Rotary-Driven Thin Bending Mechanism Realizing High Stiffness. IEEE Robotics and Automation Letters, 2021, 6, 8333-8340.	5.1	0
15	Eversion Robotic Mechanism With Hydraulic Skeleton to Realize Steering Function. IEEE Robotics and Automation Letters, 2021, 6, 5413-5420.	5.1	15
16	Passive Orientation Control of Nozzle Unit With Multiple Water Jets to Expand the Net Force Direction Range for Aerial Hose-Type Robots. IEEE Robotics and Automation Letters, 2021, 6, 5634-5641.	5.1	13
17	Fire-Resistant Deformable Soft Gripper Based on Wire Jamming Mechanism. , 2020, , .		14
18	Internally-Balanced Magnetic Mechanisms Using a Magnetic Spring for Producing a Large Amplified Clamping Force. , 2020, , .		5

#	ARTICLE	IF	CITATIONS
19	Stable Autonomous Spiral Stair Climbing of Tracked Vehicles Using Wall Reaction Force. IEEE Robotics and Automation Letters, 2020, 5, 6575-6582.	5.1	4
20	Bundled Rotary Helix Drive Mechanism Capable of Smooth Peristaltic Movement. IEEE Robotics and Automation Letters, 2020, , 1-1.	5.1	4
21	Fire extinguishment using a 4m long flying-hose-type robot with multiple water-jet nozzles. Advanced Robotics, 2020, 34, 700-714.	1.8	12
22	Haptic Exploration During Fast Video Playback: Vibrotactile Support for Event Search in Robot Operation Videos. IEEE Transactions on Haptics, 2020, 13, 436-447.	2.7	1
23	Wall Deadlock Evasion Control Based on Rotation Radius Adjustment. IEEE Robotics and Automation Letters, 2020, 5, 1358-1365.	5.1	0
24	Radial-Layer Jamming Mechanism for String Configuration. IEEE Robotics and Automation Letters, 2020, 5, 5221-5228.	5.1	12
25	Design and Control of Parallel Gripper with Linear and Curved Trajectory Consisting of Only Revolute Pairs. , 2020, , .		4
26	A Mechanical Approach to Suppress the Oscillation of a Long Continuum Robot Flying With Water Jets. IEEE Robotics and Automation Letters, 2019, 4, 4346-4353.	5.1	22
27	Canine Motion Control Using Bright Spotlight Devices Mounted on a Suit. IEEE Transactions on Medical Robotics and Bionics, 2019, 1, 189-198.	3.2	4
28	Small Swarm Search Robot System with Rigid-Bone Parachute Rapidly Deployable from Aerial Vehicles. , 2019, , .		4
29	Development of Practical Air-floating-type Active Scope Camera and User Evaluations for Urban Search and Rescue. , 2019, , .		6
30	ImPACT-TRC Thin Serpentine Robot Platform for Urban Search and Rescue. Springer Tracts in Advanced Robotics, 2019, , 25-76.	0.4	8
31	Enhanced path smoothing based on conjugate gradient descent for firefighting robots in petrochemical complexes. Advanced Robotics, 2019, 33, 687-698.	1.8	18
32	Development and Experimental Validation of Aerial Vehicle With Passive Rotating Shell on Each Rotor. IEEE Robotics and Automation Letters, 2019, 4, 2568-2575.	5.1	30
33	Fusion of Camera and Lidar Data for Large Scale Semantic Mapping. , 2019, , .		8
34	Cyber-Enhanced Rescue Canine. Springer Tracts in Advanced Robotics, 2019, , 143-193.	0.4	10
35	MR Fluid Jamming Gripper Applying Internally-Balanced Magnetic Unit Controllable by Small Control Force. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2019, 2A2-G03.	0.0	4
36	Fire Fighting Tactics with Aerial Hose-type Robot "Dragon Firefighter", 2019, , .		10

#	ARTICLE	IF	CITATIONS
37	Aerial Hose Type Robot by Water Jet for Fire Fighting. IEEE Robotics and Automation Letters, 2018, 3, 1128-1135.	5.1	65
38	Speech Enhancement Based on Bayesian Low-Rank and Sparse Decomposition of Multichannel Magnitude Spectrograms. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 215-230.	5.8	21
39	Introducing Whole Finger Effects in Surface Haptics: An Extended Stick-Slip Model Incorporating Finger Stiffness. IEEE Transactions on Haptics, 2018, 11, 417-430.	2.7	4
40	Generation of Turning Motion for Tracked Vehicles Using Reaction Force of Stairs™ Handrail. Springer Proceedings in Advanced Robotics, 2018, , 65-80.	1.3	2
41	Design and Development of Biaxial Active Nozzle with Flexible Flow Channel for Air Floating Active Scope Camera. , 2018, , .		13
42	Control of Canine™s Moving Direction by Using On-suit Laser Beams. , 2018, , .		3
43	Parking Spot Estimation and Mapping Method for Mobile Robots. IEEE Robotics and Automation Letters, 2018, 3, 3371-3378.	5.1	5
44	Jamming layered membrane gripper mechanism for grasping differently shaped-objects without excessive pushing force for search and rescue missions. Advanced Robotics, 2018, 32, 590-604.	1.8	35
45	Vehicle detection and localization on bird's eye view elevation images using convolutional neural network. , 2017, , .		28
46	Real-time emotional state estimation system for Canines based on heart rate variability. , 2017, , .		6
47	Attempt at climbing of spiral staircase for tracked vehicles using reaction force of stairs' handrail. , 2017, , .		4
48	Development of a spherical tether-handling device with a coupled differential mechanism for tethered teleoperated robots. , 2016, , .		3
49	Variational Bayesian multi-channel robust NMF for human-voice enhancement with a deformable and partially-occluded microphone array. , 2016, , .		5
50	Fog removal using laser beam penetration, laser intensity, and geometrical features for 3D measurements in fog-filled room. Advanced Robotics, 2016, 30, 729-743.	1.8	25
51	Microphone-accelerometer based 3D posture estimation for a hose-shaped rescue robot. , 2015, , .		8
52	Posture estimation of hose-shaped robot by using active microphone array. Advanced Robotics, 2015, 29, 35-49.	1.8	6
53	Rolling Resistance between Roller and Flexible Tube of Pneumatic Hollow-shaft Actuator. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 269-270.	0.0	0
54	Hovering of MAV by using magnetic adhesion and winch mechanisms. , 2014, , .		22

#	ARTICLE	IF	CITATIONS
55	Shape estimation of flexible cable. , 2012, , .		8