

# Satoshi Tadokoro

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5063063/publications.pdf>

Version: 2024-02-01

55  
papers

530  
citations

840776

11  
h-index

839539

18  
g-index

56  
all docs

56  
docs citations

56  
times ranked

365  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerial Hose Type Robot by Water Jet for Fire Fighting. IEEE Robotics and Automation Letters, 2018, 3, 1128-1135.	5.1	65
2	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
3	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
4	Vehicle detection and localization on bird's eye view elevation images using convolutional neural network. , 2017, , .		28
5	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
6	Hovering of MAV by using magnetic adhesion and winch mechanisms. , 2014, , .		22
7	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
8	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
9	Enhanced path smoothing based on conjugate gradient descent for firefighting robots in petrochemical complexes. Advanced Robotics, 2019, 33, 687-698.	1.8	18
10	Eversion Robotic Mechanism With Hydraulic Skeleton to Realize Steering Function. IEEE Robotics and Automation Letters, 2021, 6, 5413-5420.	5.1	15
11	Fire-Resistant Deformable Soft Gripper Based on Wire Jamming Mechanism. , 2020, , .		14
12	Design and Development of Biaxial Active Nozzle with Flexible Flow Channel for Air Floating Active Scope Camera. , 2018, , .		13
13	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
14	Stabilized Controller for Jet Actuated Cantilevered Pipe Using Damping Effect of an Internal Flowing Fluid. IEEE Access, 2022, 10, 5238-5249.	4.2	13
15	Fire extinguishment using a 4m long flying-hose-type robot with multiple water-jet nozzles. Advanced Robotics, 2020, 34, 700-714.	1.8	12
16	Radial-Layer Jamming Mechanism for String Configuration. IEEE Robotics and Automation Letters, 2020, 5, 5221-5228.	5.1	12
17	Cyber-Enhanced Rescue Canine. Springer Tracts in Advanced Robotics, 2019, , 143-193.	0.4	10
18	Fire Fighting Tactics with Aerial Hose-type Robot "Dragon Firefighter", 2019, , .		10

#	ARTICLE	IF	CITATIONS
19	Semantic Mapping of Construction Site From Multiple Daily Airborne LiDAR Data. IEEE Robotics and Automation Letters, 2021, 6, 3073-3080.	5.1	9
20	Shape estimation of flexible cable. , 2012, , .		8
21	Microphone-accelerometer based 3D posture estimation for a hose-shaped rescue robot. , 2015, , .		8
22	ImPACT-TRC Thin Serpentine Robot Platform for Urban Search and Rescue. Springer Tracts in Advanced Robotics, 2019, , 25-76.	0.4	8
23	Fusion of Camera and Lidar Data for Large Scale Semantic Mapping. , 2019, , .		8
24	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
25	Posture estimation of hose-shaped robot by using active microphone array. Advanced Robotics, 2015, 29, 35-49.	1.8	6
26	Real-time emotional state estimation system for Canines based on heart rate variability. , 2017, , .		6
27	Development of Practical Air-floating-type Active Scope Camera and User Evaluations for Urban Search and Rescue. , 2019, , .		6
28	Variational Bayesian multi-channel robust NMF for human-voice enhancement with a deformable and partially-occluded microphone array. , 2016, , .		5
29	Parking Spot Estimation and Mapping Method for Mobile Robots. IEEE Robotics and Automation Letters, 2018, 3, 3371-3378.	5.1	5
30	Internally-Balanced Magnetic Mechanisms Using a Magnetic Spring for Producing a Large Amplified Clamping Force. , 2020, , .		5
31	Pneumatic Driven Hollow Variable Stiffness Mechanism Aiming Non-Contact Insertion of Telescopic Guide Tubes. , 2021, , .		5
32	Attempt at climbing of spiral staircase for tracked vehicles using reaction force of stairs' handrail. , 2017, , .		4
33	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
34	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
35	Small Swarm Search Robot System with Rigid-Bone Parachute Rapidly Deployable from Aerial Vehicles. , 2019, , .		4
36	Stable Autonomous Spiral Stair Climbing of Tracked Vehicles Using Wall Reaction Force. IEEE Robotics and Automation Letters, 2020, 5, 6575-6582.	5.1	4

#	ARTICLE	IF	CITATIONS
37	Bundled Rotary Helix Drive Mechanism Capable of Smooth Peristaltic Movement. IEEE Robotics and Automation Letters, 2020, , 1-1.	5.1	4
38	Design and Control of Parallel Gripper with Linear and Curved Trajectory Consisting of Only Revolute Pairs. , 2020, , .		4
39	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
40	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, 2019, 2A2-G03.	0.0	4
41	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
42	Development of a spherical tether-handling device with a coupled differential mechanism for tethered teleoperated robots. , 2016, , .		3
43	Control of Canineâ€™s Moving Direction by Using On-suit Laser Beams. , 2018, , .		3
44	Generation of Turning Motion for Tracked Vehicles Using Reaction Force of Stairsâ€™ Handrail. Springer Proceedings in Advanced Robotics, 2018, , 65-80.	1.3	2
45	Sensory Equivalence Conversion of High-Frequency Vibrotactile Signals using Intensity Segment Modulation Method for Enhancing Audiovisual Experience. , 2021, , .		2
46	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
47	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
48	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
49	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
50	Electrocardiogram Measurement and Emotion Estimation of Working Dogs. IEEE Robotics and Automation Letters, 2022, 7, 4047-4054.	5.1	1
51	Wall Deadlock Evasion Control Based on Rotation Radius Adjustment. IEEE Robotics and Automation Letters, 2020, 5, 1358-1365.	5.1	0
52	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
53	Two-Sheet Type Rotary-Driven Thin Bending Mechanism Realizing High Stiffness. IEEE Robotics and Automation Letters, 2021, 6, 8333-8340.	5.1	0
54	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

#	ARTICLE	IF	CITATIONS
55	Fluid Jet Actuated Flying Continuum Robots. Journal of the Robotics Society of Japan, 2022, 40, 310-314.	0.1	0