

# Atsushi Konno

## List of Publications by Year in descending order

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75  
papers

887  
citations

430874

18  
h-index

526287

27  
g-index

80  
all docs

80  
docs citations

80  
times ranked

668  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robotized Assembly of a Wire Harness in a Car Production Line. <i>Advanced Robotics</i> , 2011, 25, 473-489.	1.8	106
2	Raman-Scattering Spectroscopy of Epitaxial Graphene Formed on SiC Film on Si Substrate. <i>E-Journal of Surface Science and Nanotechnology</i> , 2009, 7, 107-109.	0.4	63
3	Optimal transition from hovering to level-flight of a quadrotor tail-sitter UAV. <i>Autonomous Robots</i> , 2017, 41, 1143-1159.	4.8	51
4	Delay Time Compensation for a Hybrid Simulator. <i>Advanced Robotics</i> , 2010, 24, 1081-1098.	1.8	49
5	Cooperative Control of a 3D Dual-Flexible-Arm Robot. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2004, 39, 1-15.	3.4	44
6	Transition between Level Flight and Hovering of a Tail-Sitter Vertical Takeoff and Landing Aerial Robot. <i>Advanced Robotics</i> , 2010, 24, 763-781.	1.8	43
7	Configuration- Dependent Vibration Controllability of Flexible-Link Manipulators. <i>International Journal of Robotics Research</i> , 1997, 16, 567-576.	8.5	32
8	Design and evaluation of an encountered-type haptic interface using MR fluid for surgical simulators. <i>Advanced Robotics</i> , 2013, 27, 525-540.	1.8	30
9	Design, implementation, and performance evaluation of a 4-DOF parallel robot. <i>Robotica</i> , 2010, 28, 107-118.	1.9	29
10	Symmetry position/force hybrid control for cooperative object transportation using multiple humanoid robots. <i>Advanced Robotics</i> , 2016, 30, 131-149.	1.8	25
11	Large attitude change flight of a quad tilt rotor unmanned aerial vehicle. <i>Advanced Robotics</i> , 2016, 30, 326-337.	1.8	23
12	Hovering Control of a Tail-Sitter VTOL Aerial Robot. <i>Journal of Robotics and Mechatronics</i> , 2009, 21, 277-283.	1.0	23
13	Motion analysis for better understanding of psychomotor skills in laparoscopy: objective assessment-based simulation training using animal organs. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2021, 35, 4399-4416.	2.4	22
14	An impact dynamics model and sequential optimization to generate impact motions for a humanoid robot. <i>International Journal of Robotics Research</i> , 2011, 30, 1596-1608.	8.5	21
15	Thin-Film Deposition of Silicon-Incorporated Diamond-Like Carbon by Plasma-Enhanced Chemical Vapor Deposition Using Monomethylsilane as a Silicon Source. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 8491-8497.	1.5	19
16	Design and Attitude Control of a Quad-Rotor Tail-Sitter Vertical Takeoff and Landing Unmanned Aerial Vehicle. <i>Advanced Robotics</i> , 2012, 26, 307-326.	1.8	18
17	Development of a Wire Harness Assembly Motion Planner for Redundant Multiple Manipulators. <i>Journal of Robotics and Mechatronics</i> , 2011, 23, 907-918.	1.0	18
18	Real-Time Observation of Initial Thermal Oxidation on Si(110)-16Å—2 Surfaces by O 1s Photoemission Spectroscopy Using Synchrotron Radiation. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 1888-1890.	1.5	15

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19	Marker-based motion tracking using Microsoft Kinect. IFAC-PapersOnLine, 2018, 51, 399-404.	0.9	15
20	Observation of Initial Oxidation on Si(110)-16Å—2 surface by Scanning Tunneling Microscopy. Japanese Journal of Applied Physics, 2007, 46, 3239-3243.	1.5	14
21	Hydrogen-Controlled Crystallinity of 3C-SiC Film on Si(001) Grown with Monomethylsilane. Japanese Journal of Applied Physics, 2007, 46, L40-L42.	1.5	13
22	A simple damage and fracture model of brain parenchyma for haptic brain surgery simulations. Journal of Biomechanical Science and Engineering, 2016, 11, 16-00323-16-00323.	0.3	10
23	Modeling of a Flexible Manipulator Dynamics Based on the Holzer's Method.. Journal of the Robotics Society of Japan, 1994, 12, 1021-1028.	0.1	9
24	Analytic singularity analysis of a 4-DOF parallel robot based on Jacobian deficiencies. International Journal of Control, Automation and Systems, 2010, 8, 378-384.	2.7	9
25	Development and Validation of a Measurement System for Laparoscopic Surgical Procedures. SICE Journal of Control Measurement and System Integration, 2020, 13, 191-200.	0.7	9
26	Improved 3D Human Motion Capture Using Kinect Skeleton and Depth Sensor. Journal of Robotics and Mechatronics, 2021, 33, 1408-1422.	1.0	9
27	Closed-form forward kinematics solutions of a 4-DOF parallel robot. International Journal of Control, Automation and Systems, 2009, 7, 858-864.	2.7	8
28	Identification of mechanical properties of brain parenchyma for brain surgery haptic simulation. , 2014, , .		8
29	A singularly perturbed method for pole assignment control of a flexible manipulator. Robotica, 2002, 20, 637-651.	1.9	7
30	Stable Soft-Tissue Fracture Simulation for Surgery Simulator. Journal of Robotics and Mechatronics, 2011, 23, 589-597.	1.0	7
31	Objective evaluation of laparoscopic surgical skills in wet lab training based on motion analysis and machine learning. Langenbeck's Archives of Surgery, 2022, 407, 2123-2132.	1.9	7
32	Empirical Potential Approach to the Formation of 3C-SiC/Si(110). Applied Physics Express, 0, 1, 111201.	2.4	6
33	Vision-Based Task-Level Control of a Flexible-Link Manipulator. Advanced Robotics, 2010, 24, 467-488.	1.8	6
34	Massive object transportation by a humanoid robot. IFAC-PapersOnLine, 2018, 51, 250-255.	0.9	6
35	Inverse Dynamics Analysis of a 4-d.o.f. Parallel Robot H4. Advanced Robotics, 2010, 24, 159-177.	1.8	5
36	A Human-Like Approach Towards Humanoid Robot Footstep Planning. International Journal of Advanced Robotic Systems, 2011, 8, 41.	2.1	5

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37	An Interactive Endotracheal Suctioning Simulator Which Exhibits Vital Reactions: ESTE-SIM. International Journal of Automation Technology, 2019, 13, 490-498.	1.0	5
38	Development of a High Speed Dynamics Simulator for Humanoid Robots. Journal of the Robotics Society of Japan, 2005, 23, 113-123.	0.1	5
39	Wrist Camera-Based Vibration Suppression Control for a Flexible Manipulator. Advanced Robotics, 2011, 25, 805-823.	1.8	4
40	Analysis of drop test using a one-legged robot toward parachute landing by a humanoid robot. , 2017, , .		4
41	Development of a Surgical Simulator for Training Retraction of Tissue with an Encountered-Type Haptic Interface Using MR Fluid. , 2018, , .		4
42	Development and Thrust Response Evaluation of a Variable Pitch Propeller Quad Tilt-rotor Drone. Transactions of the Society of Instrument and Control Engineers, 2020, 56, 310-316.	0.2	4
43	SR-PES and STM observation of metastable chemisorption state of oxygen on Si(110)-16Å <sup>2</sup> surface. Applied Surface Science, 2008, 254, 6232-6234.	6.1	3
44	Temperature oscillation as a real-time monitoring of the growth of 3C-SiC on Si substrate. Applied Surface Science, 2008, 254, 6235-6237.	6.1	3
45	Haptic rendering of contact between rigid and deformable objects based on penalty method with implicit time integration. , 2016, , .		3
46	Haptic Interaction with Segmented Medical Image Embedded in Finite Element Mesh. Journal of Japan Society of Computer Aided Surgery, 2017, 19, 89-99.	0.0	3
47	Drop test for evaluating effect of cushioning material and servo gain on parachute landing impact using a small one-legged robot. , 2017, , .		3
48	A Measurement System for Skill Evaluation of Laparoscopic Surgical Procedures. , 2019, , .		3
49	AR Brain-Shift Display for Computer-Assisted Neurosurgery. , 2019, , .		3
50	Relationship Between Tracheal Suctioning Catheter Motion and Secretion Amount Based on Viscosity. SAGE Open Nursing, 2020, 6, 237796082096938.	1.2	3
51	MPID Control Tuning for a Flexible Manipulator Using a Neural Network. Journal of Robotics and Mechatronics, 2010, 22, 82-90.	1.0	3
52	Mobile manipulation of a humanoid robot. , 2012, , .		2
53	Imitation learning framework based on principal component analysis. Advanced Robotics, 2015, 29, 639-656.	1.8	2
54	A simple brain shift estimation for neuronavigation based on finite element method and hydrostatics. , 2017, , .		2

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55	Numerical Model of Connective Tissue for Splitting Brain Fissure Simulation. , 2019, , .		2
56	Presenting a Simple Method of Brain Shift Estimation for Neuronavigations and Considering its Practicality. , 2019, , .		2
57	A Nonlinear and Failure Numerical Calculation Method for Vessel Preservation Simulations Based on Subarachnoid Space Structure Considerations. IEEE Transactions on Medical Robotics and Bionics, 2020, 2, 356-363.	3.2	2
58	A Simple Deformation and Reaction Force Numerical Calculation Method for Nonlinear Brain Tissues. , 2020, , .		2
59	Construction of a detachable artificial trachea model for three age groups for use in an endotracheal suctioning training environment simulator. PLoS ONE, 2021, 16, e0249010.	2.5	2
60	Hybrid Simulation of a Capturing a Rotating Object Task by a Dual-Arm Space Robot. Journal of the Robotics Society of Japan, 2008, 26, 590-598.	0.1	2
61	Numerical Calculation Method for Brain Shift Based on Hydrostatics and Dynamic FEM. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 368-380.	3.2	2
62	Accuracy improvement of delay time compensation based on the coefficient of restitution for a hybrid simulator. , 2012, , .		1
63	Experimental and numerical analysis of damage fracture mechanics of brain parenchyma. , 2016, , .		1
64	Vessel Dissection Simulation for Neurosurgery Simulators Considering Subarachnoid Space Structure. , 2019, , .		1
65	A Hepato-Biliary-Pancreatic Deformable Model for a Simulation-Based Laparoscopic Surgery Navigation. , 2020, , .		1
66	Vibration Suppressing Control of 3D Flexible Manipulators Using the Acceleration Command.. Journal of the Robotics Society of Japan, 1994, 12, 1166-1174.	0.1	1
67	Design and Development of a High Speed Binocular Camera Head. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 418-427.	0.2	1
68	A Wearable Encounter-Type Haptic Device Suitable for Combination with Visual Display. Journal of Robotics and Mechatronics, 2016, 28, 790-798.	1.0	1
69	A Model of Stress Relaxation for Brain Retraction Simulation. Journal of Japan Society of Computer Aided Surgery, 2018, 20, 22-32.	0.0	1
70	Compensation for dead band of force measurement based on the coefficient of restitution in a hybrid simulator. Advanced Robotics, 2013, 27, 907-917.	1.8	0
71	Real-time Control Software Equipped with Dynamic Reconfigurability for Its Sequential Process. Journal of the Robotics Society of Japan, 2004, 22, 1021-1030.	0.1	0
72	Configuration-Dependent Vibration Controllability of Flexible Arm Manipulators. Transactions of the Society of Instrument and Control Engineers, 1996, 32, 78-86.	0.2	0

#	ARTICLE	IF	CITATIONS
73	Intelligent Robotics. Research Platform of Perception-Action Integration in Legged Robot: JROB-1.. Journal of the Robotics Society of Japan, 1998, 16, 623-628.	0.1	0
74	References of References in Flexible Robots. Journal of the Robotics Society of Japan, 1998, 16, 921-923.	0.1	0
75	Analysis of the Strong Local Wind in Northwestern Hokkaido, Japan. Geographical Studies, 2018, 92, 17-36.	0.2	0