

# Yusuke Tamura

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123  
papers

588  
citations

12  
h-index

20  
g-index

146  
ext. papers

822  
ext. citations

1.8  
avg, IF

3.75  
L-index

#	Paper	IF	Citations
123	Effect of Tilted Ground on Muscle Activity in Human Sit-to-Stand Motion: Preliminary Result. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 341-350	0.5	
122	Artificial neural network that modifies muscle activity in sit-to-stand motion using sensory input. <i>Advanced Robotics</i> , <b>2021</b> , 35, 858-866	1.7	
121	Analysis of muscle synergy and kinematics in sit-to-stand motion of hemiplegic patients in subacute period. <i>Advanced Robotics</i> , <b>2021</b> , 35, 867-877	1.7	3
120	Path Planning for Localization of Radiation Sources Based on Principal Component Analysis. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4707	2.6	2
119	Acoustic Camera-Based Pose Graph SLAM for Dense 3-D Mapping in Underwater Environments. <i>IEEE Journal of Oceanic Engineering</i> , <b>2021</b> , 46, 829-847	3.3	3
118	Modified sensory feedback enhances the sense of agency during continuous body movements in virtual reality. <i>Scientific Reports</i> , <b>2021</b> , 11, 2553	4.9	5
117	Goal Estimation of Mandatory Lane Changes Based on Interaction between Drivers. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3289	2.6	0
116	Automated Image Presentation for Backhoe Embankment Construction in Unmanned Construction Site <b>2020</b> ,		2
115	ACMarker: Acoustic Camera-Based Fiducial Marker System in Underwater Environment. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 5018-5025	4.2	2
114	Smartphone Zombie Detection From LiDAR Point Cloud for Mobile Robot Safety. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 2256-2263	4.2	1
113	Temporal Muscle Synergy Features Estimate Effects of Short-Term Rehabilitation in Sit-to-Stand of Post-Stroke Patients. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 1796-1802	4.2	2
112	Gamma-ray Source Identification by a Vehicle-mounted 4 Compton Imager <b>2020</b> ,		1
111	Action Recognition of Excavator by Deep Learning Using Simulated Training Data. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2020</b> , 2020, 2P2-A05	0	
110	Free viewpoint image generation system using fisheye cameras and a laser rangefinder for indoor robot teleoperation. <i>ROBOMECH Journal</i> , <b>2020</b> , 7,	2.1	5
109	360 Depth Estimation from Multiple Fisheye Images with Origami Crown Representation of Icosahedron <b>2020</b> ,		1
108	Automatic Video Presentation for Backhoe Embankment Construction Based on Remote Operator's Requirements. <i>Journal of the Japan Society for Precision Engineering</i> , <b>2020</b> , 86, 164-170	0.1	
107	Judgement of Trafficability of Construction Machinery Based on Estimation of Soil Parameters from Spectral Images. <i>Journal of the Japan Society for Precision Engineering</i> , <b>2020</b> , 86, 1057-1063	0.1	

106	Development of an Artificial Marker System based on Acoustic Camera for Underwater Environment. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2020</b> , 2020, 1A1-B01	0	
105	Radioactive source recognition with moving Compton camera imaging robot using Geant4. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2020</b> , 953, 163108	1.2	2
104	Temporal Features of Muscle Synergies in Sit-to-Stand Motion Reflect the Motor Impairment of Post-Stroke Patients. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2019</b> , 27, 2118-2127	4.8	21
103	Three-dimensional Underwater Environment Reconstruction with Graph Optimization Using Acoustic Camera <b>2019</b> ,		4
102	Lane-change detection based on individual driving style. <i>Advanced Robotics</i> , <b>2019</b> , 33, 1087-1098	1.7	12
101	Robust Path Planning Against Pose Errors for Mobile Robots in Rough Terrain. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 27-39	0.4	2
100	Organization of functional modularity in sitting balance response and gait performance after stroke. <i>Clinical Biomechanics</i> , <b>2019</b> , 67, 61-69	2.2	1
99	Pedestrian trajectory prediction using BiRNN encoder-decoder framework** Portions of this work were previously presented at the Robotics Symposia 2018, Toyama, Japan.View all notes. <i>Advanced Robotics</i> , <b>2019</b> , 33, 956-969	1.7	5
98	Improvement of Sense of Agency During Upper-Limb Movement for Motor Rehabilitation Using Virtual Reality. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 118-121	0.9	1
97	Octave Deep Plane-Sweeping Network: Reducing Spatial Redundancy for Learning-Based Plane-Sweeping Stereo. <i>IEEE Access</i> , <b>2019</b> , 7, 150306-150317	3.5	1
96	Changes in Body Representation of the Human Upper Limb as a Function of Movement and Visual Hand Position. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , <b>2019</b> , 23, 196-208	0.4	1
95	Development of Remote Control Technology for Disaster Response Construction Robots. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2019</b> , 2019, 2P1-E05	0	
94	3D Reconstruction of Radiation Sources Considering Objects in Measurement Environment by a Mobile Robot Equipped with a Gamma-ray Detector. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2019</b> , 2019, 2A1-B10	0	
93	Current and Future Photonic Technologies for Decommissioning Robots. <i>The Review of Laser Engineering</i> , <b>2019</b> , 47, 630	0	
92	Efficient Motion Planning for Mobile Robots Dealing with Changes in Rough Terrain. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2019</b> , 2019, 2A2-C13	0	
91	Tumble Avoidance of Teleoperated Mobile Robots During Traveling Controlling Robot's Arm. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2019</b> , 2019, 2P1-B06	0	1
90	Development of Construction Technology for Intelligent Construction System. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2019</b> , 2019, 1P2-D03	0	1
89	Skill Abstraction of Physical Therapists in Hemiplegia Patient Rehabilitation Using a Walking Assist Robot. <i>International Journal of Automation Technology</i> , <b>2019</b> , 13, 271-278	0.8	4

88	Investigating the Relationship Between Assisted Driver's SoA and EEG. <i>Biosystems and Biorobotics</i> , <b>2019</b> , 1039-1043	0.2	2
87	Advanced Adaptive Cruise Control Based on Operation Characteristic Estimation and Trajectory Prediction. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4875	2.6	4
86	Efficient Motion Planning for Mobile Robots Dealing with Changes in Rough Terrain. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 83-86	0.7	
85	Rotation Estimation of Acoustic Camera Based on Illuminated Area in Acoustic Image. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 163-168	0.7	4
84	Adaptive Motion Planning Based on Vehicle Characteristics and Regulations for Off-Road UGVs. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 599-611	11.9	7
83	Effect of Physical Therapy on Muscle Synergy Structure During Standing-Up Motion of Hemiplegic Patients. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 2229-2236	4.2	14
82	Acoustic Image Simulator Based on Active Sonar Model in Underwater Environment <b>2018</b> ,		5
81	Human Resource Development for Decommissioning of Fukushima Daiichi Nuclear Power Plant. <i>Journal of the Robotics Society of Japan</i> , <b>2018</b> , 36, 456-459	0.1	
80	Running Stability Visualization with Dynamic Simulator for Robot Teleoperation. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2018</b> , 2018, 2A1-K06	0	
79	Usability Analysis of Information on Worker's Hands in Animated Assembly Manuals. <i>International Journal of Automation Technology</i> , <b>2018</b> , 12, 524-532	0.8	3
78	Development of Fluffy Screen System and Field Trial at a Shopping Mall. <i>International Journal of Automation Technology</i> , <b>2018</b> , 12, 492-498	0.8	
77	Visual and Vestibular Inputs Affect Muscle Synergies Responsible for Body Extension and Stabilization in Sit-to-Stand Motion. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 1042	5.1	6
76	Trajectory Prediction of Surrounding Vehicles Considering Individual Driving Characteristics. <i>International Journal of Automotive Engineering</i> , <b>2018</b> , 9, 282-288	0.3	3
75	3D Occupancy Mapping Framework Based on Acoustic Camera in Underwater Environment. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 324-330	0.7	6
74	Advanced Adaptive Cruise Control Based on Collision Risk Assessment <b>2018</b> ,		3
73	The Readiness Potential Reflects the Reliability of Action Consequence. <i>Scientific Reports</i> , <b>2018</b> , 8, 11865	4.9	7
72	Dynamic State Estimation of Driving Style Based on Driving Risk Feature. <i>International Journal of Automotive Engineering</i> , <b>2018</b> , 9, 31-38	0.3	5
71	Lane-Change Detection Based on Vehicle-Trajectory Prediction. <i>IEEE Robotics and Automation Letters</i> , <b>2017</b> , 2, 1109-1116	4.2	63

70	Gait analysis of patients with knee osteoarthritis by using elevation angle: confirmation of the planar law and analysis of angular difference in the approximate plane. <i>Advanced Robotics</i> , <b>2017</b> , 31, 68-79	1.7	10
69	Clarification of muscle synergy structure during standing-up motion of healthy young, elderly and post-stroke patients. <i>IEEE International Conference on Rehabilitation Robotics</i> , <b>2017</b> , 2017, 19-24	1.3	7
68	Muscle synergy structure using different strategies in human standing-up motion. <i>Advanced Robotics</i> , <b>2017</b> , 31, 40-54	1.7	14
67	3D radiation imaging using mobile robot equipped with radiation detector <b>2017</b> ,		11
66	3-D Reconstruction of Underwater Object Based on Extended Kalman Filter by Using Acoustic Camera Images. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 1043-1049	0.7	5
65	Recovery Motion Learning for Arm Mounted Mobile Crawler Robot in Drive System Failure. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 2329-2334	0.7	1
64	Visualization of Obstacles on Bird's-eye View by Omnidirectional 3D Ranging Using LiDAR for Remote Controlled Robot. <i>Journal of the Japan Society for Precision Engineering</i> , <b>2017</b> , 83, 1216-1223	0.1	
63	Investigating the relationship between driver's sense of agency and EEG: Mu-rhythm is more suppressed in higher SoA case <b>2017</b> ,		1
62	3D reconstruction of line features using multi-view acoustic images in underwater environment <b>2017</b> ,		4
61	Driver classification in vehicle following behavior by using dynamic potential field method <b>2017</b> ,		5
60	Safeness visualization of terrain for teleoperation of mobile robot using 3D environment map and dynamic simulator <b>2017</b> ,		1
59	Evaluation of the Effect of Prime Stimulus on Sense of Agency in Stop Operation of the Object in Circular Motion. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , <b>2017</b> , 21, 1161-1171	0.4	1
58	Continuous Estimation of Stress Using Physiological Signals during a Car Race. <i>Psychology</i> , <b>2017</b> , 08, 978-986	0.96	7
57	Remote Control Technology and Human Resource Development for Decommissioning of Fukushima Daiichi Nuclear Power Station. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2017</b> , 2017, 2P1-R01	0	
56	Radiation Source Localization Using SLAM for Compton Camera Mounted on Mobile Robot. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2017</b> , 2017, 2P1-R06	0	
55	Where Robot Looks Is Not Where Person Thinks Robot Looks. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , <b>2017</b> , 21, 660-666	0.4	1
54	Dynamic potential-model-based feature for lane change prediction <b>2016</b> ,		9
53	Effects of Gaze Point on Driving in Motorsport. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2016</b> , 2016, 1P1-12b1	0	0

52	Storing and Warning Method of Perilous Environment Using Potential Field for Teleoperation of Robot. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2016</b> , 2016, 1P1-15a6	○	1
51	Cooperative Transportation of a Single Object by Multiple Omni-directional Mobile Manipulators with Passive Joints Mechanism. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2016</b> , 2016, 1A1-04a3	○	1
50	Automatic Detection Method of Lane-Changing Intentions Based on Relationship with Adjacent Vehicles Using Artificial Potential Fields. <i>International Journal of Automotive Engineering</i> , <b>2016</b> , 7, 127-134	○ <sup>3</sup>	12
49	Goal-Directed Movement Enhances Body Representation Updating. <i>Frontiers in Human Neuroscience</i> , <b>2016</b> , 10, 329	3-3	13
48	A human-friendly robot navigation algorithm using the risk-RRT approach <b>2016</b> ,		12
47	Lane-changing feature extraction using multisensor integration <b>2016</b> ,		2
46	Human Visual Attention Model Based on Analysis of Magic for Smooth Human-Robot Interaction. <i>International Journal of Social Robotics</i> , <b>2016</b> , 8, 685-694	4	6
45	Estimation of stress during car race with factor analysis <b>2015</b> ,		4
44	Bird's-eye View Image Generation with Camera Malfunction in Irradiation Environment. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM</i> , <b>2015</b> , 2015.6, 177-178		3
43	Distributed Cooperative Fault Diagnosis for Internal Electrical Components of Robot System. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM</i> , <b>2015</b> , 2015.6, 235-236		
42	Detection Method of Lane Change Intentions in Other Drivers Using Hidden Markov Models. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM</i> , <b>2015</b> , 2015.6, 253-254		2
41	2A2-O09 Design of Fast Walk Trajectory for Quadruped Robots during State Transition between Two Arbitrary States. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2015</b> , 2015, _2A2-O09_1-_2A2-O09_2	○	
40	2A1-Q06 Path Planning of an Overhead Crane in Consideration of Moving Obstacles. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2015</b> , 2015, _2A1-Q06_1-_2A1-Q06_2	○	
39	1A1-S01 Visual Attention Model of Effect of Robot's Posture on Area of Human's Attention. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2015</b> , 2015, _1A1-S01_1-_1A1-S01_4	○	
38	Course Detection from Integrated 3D Environment Measurement by Multiple Mobile Robots. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM</i> , <b>2015</b> , 2015.6, 237-238		
37	2P1-V02 Cooperative transportation control of three omni-directional mobile manipulators using passive joint mechanism. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2015</b> , 2015, _2P1-V02_1-_2P1-V02_2	○	
36	1P1-H05 Development of loads and moments measurement system for analysis of riding posture during pedaling. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2015</b> , 2015, _1P1-H05_1-_1P1-H05_2	○	
35	2A1-I07 Development of a mechanism for riding over a step for a walker for an aged person. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2015</b> , 2015, _2A1-I07_1-_2A1-I07_2	○	

34	Visual attention model for manipulating human attention by a robot <b>2014</b> ,		2
33	Modeling of human attention based on analysis of magic <b>2014</b> ,		3
32	Analysis of manipulating other's attention for smooth interaction between human and robot <b>2013</b> ,		4
31	Development of open platform humanoid robot DARwIn-OP. <i>Advanced Robotics</i> , <b>2013</b> , 27, 223-232	1.7	19
30	Modelling Behaviour Patterns of Pedestrians for Mobile Robot Trajectory Generation. <i>International Journal of Advanced Robotic Systems</i> , <b>2013</b> , 10, 310	1.4	3
29	Collision Avoidance of Mobile Robot Based on Prediction of Human Movement According to Environments. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , <b>2013</b> , 79, 617-628		7
28	Effect of Mediolateral Knee Displacement on Ligaments and Muscles around Knee Joint: Quantitative Analysis with Three-Dimensional Musculoskeletal Ligament Knee Model. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 447-456	0.4	1
27	Mobile Robot Navigation Based on Local Route Information and Pedestrians' Flow. <i>Journal of the Japan Society for Precision Engineering</i> , <b>2013</b> , 79, 349-355	0.1	
26	Activeness Improves Cognitive Performance in Human-Machine Interaction. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , <b>2013</b> , 17, 425-432	0.4	2
25	Hybrid dynamic mobile task allocation and reallocation methodology for distributed multi-robot coordination <b>2012</b> ,		1
24	An efficient improved artificial potential field based regression search method for robot path planning <b>2012</b> ,		70
23	Development of pedestrian behavior model taking account of intention <b>2012</b> ,		19
22	Dynamical task allocation and reallocation based on body expansion behavior for multi-robot coordination system <b>2011</b> ,		5
21	Identification of types of obstacles for mobile robots. <i>Intelligent Service Robotics</i> , <b>2011</b> , 4, 99-105	2.6	3
20	Prediction of human's movement for collision avoidance of mobile robot <b>2011</b> ,		8
19	Gait pattern generation and stabilization for humanoid robot based on coupled oscillators <b>2011</b> ,		16
18	Influence analysis of setting thresholds on dynamical sequential task allocation and reallocation methodology <b>2011</b> ,		1
17	Estimation of Users Request for Attentive Deskwork Support System <b>2010</b> ,		1

16	Smooth collision avoidance in human-robot coexisting environment <b>2010</b> ,		21
15	Development of Deskwork Support System Using Pointing Gesture Interface. <i>Journal of Robotics and Mechatronics</i> , <b>2010</b> , 22, 430-438	0.7	1
14	Attentive Deskwork Support System. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , <b>2010</b> , 14, 758-769	0.4	1
13	Quantitative Evaluation of Automatic Parts Delivery in Attentive Workbench Supporting Workers in Cell Production. <i>Journal of Robotics and Mechatronics</i> , <b>2009</b> , 21, 135-145	0.7	7
12	Target Identification Through Human Pointing Gesture Based on Human-Adaptive Approach. <i>Journal of Robotics and Mechatronics</i> , <b>2008</b> , 20, 515-525	0.7	3
11	Quantitative Evaluation of Human Supporting Production System "Attentive Workbench" <b>2007</b> ,		1
10	Attentive Workbench: An Intelligent Production Cell Supporting Human Workers <b>2007</b> , 465-474		0
9	Implementation of Human Supporting Production System "Attentive Workbench" <b>2006</b> ,		1
8	Prediction of Target Object Based on Human Hand Movement for Handing-Over between Human and Self-Moving Trays <b>2006</b> ,		3
7	Arrangement planning for multiple self-moving trays in human supporting production cell "attentive workbench" <b>2005</b> ,		4
6	Handling of Multiple Heterogeneous Objects with Marks by a Robot. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , <b>2004</b> , 70, 766-773		3
5	Motion Control of Self-Moving Trays for Human Supporting Production Cell [Attentive Workbench]		23
4	Gait pattern generation and stabilization for humanoid robot based on coupled oscillators		1
3	Gait support for complete spinal cord injury patient by synchronized leg-swing with HAL		1
2	Gait pattern generation and stabilization for humanoid robot based on coupled oscillators		2
1	Radiation distribution estimation with a non-directional detector using a plane source model*. <i>Advanced Robotics</i> , 1-10	1.7	