Kohji Tomita

List of Publications by Year
in descending order

67 papers	1,776 citations	623188 14 h-index	301761 39 g-index
73 all docs	73 docs citations	73 times ranked	751 citing authors

#	Article	IF	Citations
1	M-TRAN: self-reconfigurable modular robotic system. IEEE/ASME Transactions on Mechatronics, 2002, 7, 431-441.	3.7	444
2	Distributed Self-Reconfiguration of M-TRAN III Modular Robotic System. International Journal of Robotics Research, 2008, 27, 373-386.	5.8	203
3	Automatic Locomotion Design and Experiments for a Modular Robotic System. IEEE/ASME Transactions on Mechatronics, 2005, 10, 314-325.	3.7	192
4	Self-assembly and self-repair method for a distributed mechanical system. IEEE Transactions on Automation Science and Engineering, 1999, 15, 1035-1045.	2.4	110
5	Self-Repairing Mechanical Systems. Autonomous Robots, 2001, 10, 7-21.	3.2	84
6	A Self-Reconfigurable Modular Robot: Reconfiguration Planning and Experiments. International Journal of Robotics Research, 2002, 21, 903-915.	5.8	84
7	Graph automata: natural expression of self-reproduction. Physica D: Nonlinear Phenomena, 2002, 171, 197-210.	1.3	54
8	Self-reconfigurable M-TRAN structures and walker generation. Robotics and Autonomous Systems, 2006, 54, 142-149.	3.0	48
9	M-TRAN II: Metamorphosis from a four-legged walker to a caterpillar. , 0, , .		36
10	Micro Self-reconfigurable Modular Robot Using Shape Memory Alloy. Journal of Robotics and Mechatronics, 2001, 13, 212-219.	0.5	35
11	Get back in shape! [SMA self-reconfigurable microrobots]. IEEE Robotics and Automation Magazine, 2002, 9, 54-60.	2.2	34
12	An experimental study on a self-repairing modular machine. Robotics and Autonomous Systems, 1999, 29, 79-89.	3.0	32
13	Concept of self-reconfigurable modular robotic system. Advanced Engineering Informatics, 2001, 15, 383-387.	0.5	19
14	A distributed method for reconfiguration of a three-dimensional homogeneous structure. Advanced Robotics, 1998, 13, 363-379.	1.1	18
15	Clock Synchronization Mechanisms for a Distributed Autonomous System. Journal of Robotics and Mechatronics, 1996, 8, 427-434.	0.5	17
16	Miniaturization of Self-Reconfigurable Robotic System using Shape Memory Alloy Actuators. Journal of Robotics and Mechatronics, 2000, 12, 96-102.	0.5	16
17	A self-organizing network coordination framework enabling collision-free and congestion-less wireless sensor networks. Journal of Network and Computer Applications, 2017, 93, 228-244.	5.8	15
18	A Self-Reconfigurable Modular Robot (MTRAN) â€" Hardware and Motion Planning Software â€". , 2002, , 17-26.		14

#	Article	IF	Citations
19	Self-assembly method for mechanical structure. Artificial Life and Robotics, 1997, 1, 111-115.	0.7	12
20	Visual navigation along reference lines and collision avoidance for autonomous vehicles. , 0, , .		11
21	A distributed method for reconfiguration of a three-dimensional homogeneous structure. Advanced Robotics, 1999, 13, 363-379.	1.1	11
22	AUTOMATIC GENERATION OF SELF-REPLICATING PATTERNS IN GRAPH AUTOMATA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1011-1018.	0.7	10
23	Self-Description for Construction and Computation on Graph-Rewriting Automata. Artificial Life, 2007, 13, 383-396.	1.0	10
24	Evolutionary Motion Synthesis for a Modular Robot Using Genetic Algorithm. Journal of Robotics and Mechatronics, 2003, 15, 227-237.	0.5	9
25	Autonomous Modular Robot M-TRAN for Metamorphosis and Locomotion. Journal of the Robotics Society of Japan, 2003, 21, 855-859.	0.0	9
26	Transfer Learning Method Using Ontology for Heterogeneous Multi-agent Reinforcement Learning. International Journal of Advanced Computer Science and Applications, 2014, 5, .	0.5	8
27	A three-dimensional self-reconfigurable system. Advanced Robotics, 1998, 13, 591-602.	1.1	7
28	Effects of field of view on lateral control performance in a vision-based autonomous vehicle. Review of Automotive Engineering, 1999, 20, 499-504.	0.2	7
29	<title>Development of a self-reconfigurable modular robotic system</title>. , 2000, , .		7
30	Reconfiguration planning for a self-assembling modular robot. , 0, , .		7
31	Graph-Rewriting Automata as a Natural Extension of Cellular Automata. Understanding Complex Systems, 2009, , 291-309.	0.3	7
32	Experimental study of the human factors when riding an automated wheelchair: supervision and acceptability of the automated system. IET Intelligent Transport Systems, 2018, 12, 236-241.	1.7	6
33	Self-description for Construction and Execution in Graph Rewriting Automata. Lecture Notes in Computer Science, 2005, , 705-715.	1.0	6
34	Self-Assembly and Self-Repair Algorithm for a Distributed Mechanical System. Transactions of the Society of Instrument and Control Engineers, 1997, 33, 424-432.	0.1	5
35	Motion Planning for a Self-Reconfigurable Modular Robot. , 2001, , 385-394.		5
36	Application for a Personal Mobility Sharing System Using Two-Wheeled Self-balancing Vehicles. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 157-162.	0.2	5

#	ARTICLE	IF	CITATIONS
37	Self-Reconfigurable Robots: Platforms for Emerging Functionality. Lecture Notes in Computer Science, 2004, , 312-330.	1.0	4
38	Effects of Human Factors on Public Use of Standing-Type Personal Mobility Vehicle. Journal of Advanced Transportation, 2020, 2020, 1-14.	0.9	4
39	<title>Self-repairing mechanical systems</title>. , 1999, 3839, 202.		3
40	Farmland Consolidation by Plot Exchange : A Simulation-based Approach. The Japanese Journal of Rural Economics, 2016, 18, 1-16.	0.2	3
41	Asynchronous Graph-Rewriting Automata and Simulation of Synchronous Execution. , 2007, , 865-875.		3
42	Planning Behaviors of Modular Robots with Coherent Structure using Randomized Method. , 2007, , 149-158.		3
43	Research on Self-Reconfigurable Modular Robot System. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2003, 46, 1490-1496.	0.3	2
44	On the reachability of a version of graph-rewriting system. Information Processing Letters, 2009, 109, 777-782.	0.4	2
45	Accurate depth-map refinement by per-pixel plane fitting for stereo vision. , 2016, , .		2
46	Impact of the face angle to traveling trajectory during the riding standing-type personal mobility device. MATEC Web of Conferences, 2018, 161, 03001.	0.1	2
47	Motion Generation for a Modular Robot. Journal of Robotics and Mechatronics, 2002, 14, 177-185.	0.5	2
48	Miniature self-reconfigurable modular machine using shape memory alloy. Advanced Robotics, 1998, 13, 337-338.	1.1	1
49	An experimental study on changes of muscle fatigue among traveling by standing-type mobile vehicles and walking. , 2012, , .		1
50	Decentralized P2P Network Coordination with an Adaptive Transmission Cycle Decision mechanism and a simplified pulse-coupled oscillator. , 2013, , .		1
51	Formalization of mutual exclusion algorithms in N-labeled calculus. , 2014, , .		1
52	Effects of Station Location and Capacity for Personal Mobility Sharing. , 2015, , .		1
53	Self-assembly and Self-reproduction by an M-TRAN Modular Robotic System. Springer Tracts in Advanced Robotics, 2014, , 205-218.	0.3	1
54	Lattice-Based Modular Self-Reconfigurable Systems. Emergence, Complexity and Computation, 2015, , 77-96.	0.2	1

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55	On the elimination of some higher type quantifiers. Mathematical Structures in Computer Science, 2001, 11, 771-779.	0.5	0
56	Hierarchical Transfer Learning in Heterogeneous Multi-agent Systems. Transactions of the Society of Instrument and Control Engineers, 2015, 51, 409-420.	0.1	0
57	Use cases for rider assistant mobile application evaluation using travelling simulator. , 2016, , .		0
58	Experimental examination and simulation analysis of standing-type personal mobility device sharing. , 2016, , .		0
59	Knowledge Co-creation Framework: Novel Transfer Learning Method in Heterogeneous Multi-agent Systems. Springer Tracts in Advanced Robotics, 2016, , 389-403.	0.3	0
60	Conservative Sleep/Wake-up Control for PCO-based Desynchronization in Wireless Communication. , 2020, , .		0
61	Graph Automata. Transactions of the Society of Instrument and Control Engineers, 2003, 39, 67-73.	0.1	0
62	Homogeneous Distributed Mechanical Systems. , 2003, , 167-193.		0
63	Toward Flexible and Scalable Self-reconfiguration of M-TRAN. , 2009, , 405-416.		0
64	On Rewriting of Planar 3-Regular Graphs. Communications in Computer and Information Science, 2011, , 346-352.	0.4	0
65	State Clustering and Declustering of 3-Regular Graphs with Structural Rewriting. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 475-482.	0.2	0
66	Miniature self-reconfigurable modular machine using shape memory alloy. Advanced Robotics, 1999, 13, 337-338.	1.1	0
67	Transmission Reordering in Self-organizing Network Coordination Framework. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 14-24.	0.2	0