

Akio Namiki

List of Publications by Year in descending order

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106
papers

1,601
citations

687363

13
h-index

501196

28
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107
all docs

107
docs citations

107
times ranked

1058
citing authors

#	ARTICLE	IF	CITATIONS
1	A Tactile Sensor Sheet Using Pressure Conductive Rubber With Electrical-Wires Stitched Method. IEEE Sensors Journal, 2004, 4, 589-596.	4.7	375
2	Dynamic regrasping using a high-speed multifingered hand and a high-speed vision system. , 0, , .		109
3	The 100 G capturing robot - too fast to see. IEEE/ASME Transactions on Mechatronics, 2003, 8, 37-44.	5.8	71
4	Grasping force control of multi-fingered robot hand based on slip detection using tactile sensor. , 2008, , .		59
5	Ball control in high-speed batting motion using hybrid trajectory generator. , 0, , .		58
6	High-speed throwing motion based on kinetic chain approach. , 2008, , .		58
7	1-ms sensory-motor fusion system. IEEE/ASME Transactions on Mechatronics, 2000, 5, 244-252.	5.8	48
8	Motion planning for dynamic folding of a cloth with two high-speed robot hands and two high-speed sliders. , 2011, , .		42
9	Motion planning for dynamic knotting of a flexible rope with a high-speed robot arm. , 2010, , .		41
10	Autonomous Target Tracking of UAV Using High-Speed Visual Feedback. Applied Sciences (Switzerland), 2019, 9, 4552.	2.5	37
11	One-handed knotting of a flexible rope with a high-speed multifingered hand having tactile sensors. , 2007, , .		35
12	Dynamic Pen Spinning Using a High-speed Multifingered Hand with High-speed Tactile Sensor. , 2006, , .		31
13	Realtime collision avoidance using a robot manipulator with light-weight small high-speed vision systems. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	30
14	Two ball juggling with high-speed hand-arm and high-speed vision system. , 2012, , .		28
15	Skillful manipulation based on high-speed sensory-motor fusion. , 2009, , .		23
16	Safe human-robot-coexistence: emergency-stop using a high-speed vision-chip. , 2005, , .		22
17	Hierarchical processing architecture for an air-hockey robot system. , 2013, , .		22
18	Origami Folding by Multifingered Hands with Motion Primitives. Cyborg and Bionic Systems, 2021, 2021, .	7.9	20

#	ARTICLE	IF	CITATIONS
19	Simple Model and Deformation Control of a Flexible Rope using Constant, High-Speed Motion of a Robot Arm. , 2012, , .		19
20	Knotting manipulation of a flexible rope by a multifingered hand system based on skill synthesis. , 2008, , .		18
21	Dynamic High-Speed Knotting of a Rope by a Manipulator. International Journal of Advanced Robotic Systems, 2013, 10, 361.	2.1	18
22	Target Tracking of Moving and Rotating Object by High-Speed Monocular Active Vision. IEEE Sensors Journal, 2020, 20, 6727-6744.	4.7	18
23	A Hierarchical Control Architecture for High-Speed Visual Servoing. International Journal of Robotics Research, 2003, 22, 873-888.	8.5	17
24	Robot dribbling using a high-speed multifingered hand and a high-speed vision system. , 2005, , .		17
25	Ultra high-speed Robot Based on 1 kHz vision system. , 2012, , .		17
26	High-speed sensory-motor fusion based on dynamics matching. Proceedings of the IEEE, 2002, 90, 1178-1187.	21.3	16
27	Grasping Force Control of Multi-fingered Robot Hand based on Slip Detection Using Tactile Sensor. Journal of the Robotics Society of Japan, 2007, 25, 970-978.	0.1	16
28	Ball catching in kendama game by estimating grasp conditions based on a high-speed vision system and tactile sensors. , 2014, , .		16
29	High-speed sensory-motor fusion for robotic grasping. Measurement Science and Technology, 2002, 13, 1767-1778.	2.6	15
30	A New Four-Fingered Robot Hand with Dual Turning Mechanism. , 0, , .		14
31	Dynamic Manipulation of a Cloth by High-speed Robot System using High-speed Visual Feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8076-8081.	0.4	14
32	Robotic origami folding with dynamic motion primitives. , 2015, , .		13
33	Vision-based predictive assist control on master-slave systems. , 2017, , .		11
34	Dexterous manipulation of a rhythmic gymnastics ribbon with constant, high-speed motion of a high-speed manipulator. , 2013, , .		10
35	Motion Generation for a Sword-Fighting Robot Based on Quick Detection of Opposite Player's Initial Motions. Journal of Robotics and Mechatronics, 2015, 27, 543-551.	1.0	10
36	Real-time system for virtually touching objects in the real world using modality transformation from images to haptic information. Systems and Computers in Japan, 1999, 30, 17-24.	0.2	9

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37	Tweezers type tool manipulation by a multifingered hand using a high-speed visual servoing. , 2008, , .		9
38	Development of an Active High-Speed 3-D Vision System. Sensors, 2019, 19, 1572.	3.8	8
39	High-Speed Catching by Multi-Vision Robot Hand. , 2020, , .		8
40	Visuomotor Integration in High-speed Manipulation System. , 2006, , .		7
41	Grasping force control of multi-fingered robot hand based on slip detection using tactile sensor. , 2008, , .		7
42	A lightweight shoulder prosthesis with antagonistic impact-absorbing hybrid actuation for bimanual activities of daily living. Advances in Mechanical Engineering, 2016, 8, 168781401664598.	1.6	7
43	The Analysis of High-speed Catching with a Multifingered Robot Hand. , 0, , .		6
44	Operation assistance using visual feedback with considering human intention on master-slave systems. , 2016, , .		6
45	Efficient Active Sensing with Categorized Further Explorations for a Home Behavior-Monitoring Robot. Journal of Healthcare Engineering, 2017, 2017, 1-16.	1.9	6
46	Dynamic Manipulation of a Flexible Rope using a High-speed Robot Arm. Journal of the Robotics Society of Japan, 2013, 31, 628-638.	0.1	6
47	Tweezers manipulation using high-speed visual servoing based on contact analysis. , 2011, , .		5
48	Dynamic Folding of a Cloth using a High-speed Multifingered Hand System. Journal of the Robotics Society of Japan, 2012, 30, 225-232.	0.1	5
49	Algorithm for optimizing attack motions for air-hockey robot by two-step look ahead prediction. , 2016, , .		5
50	Real-Time Visual Feedback Control of Multi-Camera UAV. Journal of Robotics and Mechatronics, 2021, 33, 263-273.	1.0	5
51	Vision-Based Online Trajectory Generation and Its Application to Catching. , 0, , 249-264.		5
52	A decision-making algorithm for an air-hockey robot that decides actions depending on its opponent player's motions. , 2015, , .		4
53	Operation assist for a teleoperated robot system controlled with a lightweight and high-operable master device. , 2015, , .		4
54	Simplified deformation model and shape generation of a rhythmic gymnastics ribbon using a high-speed multi-jointed manipulator. Mechanical Engineering Journal, 2016, 3, 15-00510-15-00510.	0.4	4

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55	Planning of Knotting Based on Manipulation Skills with Consideration of Robot Mechanism/Motion and Its Realization by a Robot Hand System. <i>Symmetry</i> , 2017, 9, 194.	2.2	4
56	WAREC-1 “A Four-Limbed Robot with Advanced Locomotion and Manipulation Capabilities. <i>Springer Tracts in Advanced Robotics</i> , 2019, , 327-397.	0.4	4
57	Autonomous Flight of Hexacopter Under Propulsion System Failure. <i>Journal of Robotics and Mechatronics</i> , 2016, 28, 899-910.	1.0	4
58	Hybrid Trajectory Generation of an Articulated Manipulator for High-speed Batting. <i>Journal of the Robotics Society of Japan</i> , 2006, 24, 515-522.	0.1	4
59	Sliding Mode Control for Hexacopter Stabilization with Motor Failure. <i>Journal of Robotics and Mechatronics</i> , 2016, 28, 936-948.	1.0	4
60	Knotting Manipulation of a Flexible Rope Using a High-speed Multifingered Hand and High-speed Visual and Tactile Sensory Feedback. <i>Journal of the Robotics Society of Japan</i> , 2009, 27, 1016-1024.	0.1	3
61	High Speed Dexterous Manipulation with High Speed Vision. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 395-400.	0.4	3
62	Assist control for ball catching using high-speed vision on a master-slave robot. , 2016, , .		3
63	Origami operations by multifingered robot hand with realtime 3D shape estimation of paper. , 2016, , .		3
64	Ball juggling robot system controlled by high-speed vision. , 2017, , .		3
65	Vision-Based Optimal Control for an Air-Hockey Robot System. , 2017, , .		3
66	Real-time Player's Posture Measurement System for Air-Hockey Robot. , 2018, , .		3
67	A Low Cognitive Load and Reduced Motion Sickness Inducing Zoom Method Based on Typical Gaze Movement for Master-Slave Teleoperation Systems with HMD. , 2020, , .		3
68	Velocity Estimation for UAVs by Using High-Speed Vision. <i>Journal of Robotics and Mechatronics</i> , 2018, 30, 363-372.	1.0	3
69	Development of Four-Fingered Robot Hand with Dual Turning Mechanism. <i>Journal of the Robotics Society of Japan</i> , 2006, 24, 813-819.	0.1	3
70	Card manipulation using a high-speed robot system with high-speed visual feedback. , 2012, , .		2
71	Control of Projected Images on Movable and Deformable Screens Using Visual Servoing. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2013, 79, 4757-4769.	0.2	2
72	Articulated Object Tracking by High-Speed Monocular RGB Camera. <i>IEEE Sensors Journal</i> , 2021, 21, 11899-11915.	4.7	2

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73	Dynamic Compensation in Throwing Motion with High-Speed Robot Hand-Arm. , 2021, , .		2
74	Optimal Grasping Using Visual and Tactile Feedback.. Journal of the Robotics Society of Japan, 2000, 18, 261-269.	0.1	2
75	Tweezers Type Tool Manipulation by a Multifinger Hand Using a High-Speed Visual Servoing. , 0, , .		2
76	Adaptive acquisition of dynamics matching in sensory-motor fusion system. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50		
77	Real-time 3D recognition of manipulated object by robot hand using 3D sensor. , 2015, , .		1
78	High-speed 3-D measurement of a moving object with visual servo. , 2016, , .		1
79	Vision-based batting training system. , 2017, , .		1
80	Development of a fishhook-type robot hand: EEL-hand. , 2017, , .		1
81	Assist Control for Dual Arm Cooperative Manipulation by Remote Controlled Robot. , 2018, , .		1
82	Assistance for Master-Slave System for Objects of Various Shapes by Eye Gaze Tracking and Motion Prediction. , 2018, , .		1
83	Paper State Estimation Using Physical Model and Trajectory Planning of Multi-Fingered Robot Hand. , 2018, , .		1
84	High-speed Target Tracking of 3D Object by Monocular camera. , 2020, , .		1
85	Direct visual servoing of UAVs using onboard monocular camera. , 2020, , .		1
86	High-speed Visual Feedback Control for Grasping and Manipulation. Lecture Notes in Control and Information Sciences, 2010, , 39-53.	1.0	1
87	1A1-D06 Development of a Sword-Fighting robot by High-Speed Vision(Robots for Amusement and) Tj ETQq1 1 0.784314 rgBT /Overlock (Robomec), 2014, 2014, _1A1-D06_1-_1A1-D06_4.	0.0	1
88	ImPACT-TRC Legged Robot Improvement and User Interface. Journal of the Robotics Society of Japan, 2019, 37, 818-823.	0.1	1
89	Motion Strategy Using Opponent Player's Serial Learning for Air-Hockey Robots. , 2021, , .		1
90	Multi-Eye Vision Robot. Journal of the Robotics Society of Japan, 2022, 40, 387-392.	0.1	1

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91	Manipulation by a multifingered hand using high-speed visual feedback. <i>Advanced Robotics</i> , 1998, 13, 285-286.	1.8	0
92	Sensory-motor integration for dexterous high-speed handling. , 2008, , .		0
93	Teaching system for multifingered robot hands using kinetic information of manipulated objects. , 2011, , .		0
94	Analysis and Realization of Card Flicking Manipulation Using a High-Speed Robot Hand. <i>International Journal of Advanced Robotic Systems</i> , 2015, 12, 130.	2.1	0
95	Mapping Grasping Motion of Hand between Master and Slave in a Low-Dimensional Latent Space. , 2018, , .		0
96	High-Speed Orientation Measurement of a Moving Object with Patterned Light Projection and Model Matching. , 2018, , .		0
97	Trajectory Generation for Juggling Considering Dynamics of Multifingered Hand-arm. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2018, 54, 46-54.	0.2	0
98	High-Resolution and High-Frame-Rate Image Estimation with Heterogeneous Cameras. , 2018, , .		0
99	Toward Dynamic Manipulation of Flexible Objects by High-Speed Robot System: From Static to Dynamic. , 2020, , .		0
100	Assist system for remote manipulation of electric drills by the robot "WAREC-1R" using deep reinforcement learning. <i>Robotica</i> , 2022, 40, 365-376.	1.9	0
101	Artificial Hand-brain System Based on Sensory-Motor Fusion Theory. <i>Journal of the Robotics Society of Japan</i> , 2000, 18, 805-806.	0.1	0
102	For the Realization of High-speed Manipulation. <i>Journal of the Robotics Society of Japan</i> , 2002, 20, 149-150.	0.1	0
103	Visuomotor Architecture for High-Speed Robot Control. , 2003, , 323-337.		0
104	Dexterous handling using a multifingered hand with finger rotation mechanism. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM</i> , 2010, 2010.5, 439-443.	0.0	0
105	Manipulation by a multifingered hand using high-speed visual feedback. <i>Advanced Robotics</i> , 1999, 13, 285-286.	1.8	0
106	Juggling Robot and Air-Hockey Robot. <i>Journal of the Robotics Society of Japan</i> , 2020, 38, 307-312.	0.1	0