

Akio Namiki

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8703761/publications.pdf>

Version: 2024-02-01

106
papers

1,601
citations

687363

13
h-index

501196

28
g-index

107
all docs

107
docs citations

107
times ranked

1058
citing authors

#	ARTICLE	IF	CITATIONS
1	Assist system for remote manipulation of electric drills by the robot "WAREC-1" using deep reinforcement learning. <i>Robotica</i> , 2022, 40, 365-376.	1.9	0
2	Multi-Eye Vision Robot. <i>Journal of the Robotics Society of Japan</i> , 2022, 40, 387-392.	0.1	1
3	Real-Time Visual Feedback Control of Multi-Camera UAV. <i>Journal of Robotics and Mechatronics</i> , 2021, 33, 263-273.	1.0	5
4	Origami Folding by Multifingered Hands with Motion Primitives. <i>Cyborg and Bionic Systems</i> , 2021, 2021, .	7.9	20
5	Articulated Object Tracking by High-Speed Monocular RGB Camera. <i>IEEE Sensors Journal</i> , 2021, 21, 11899-11915.	4.7	2
6	Dynamic Compensation in Throwing Motion with High-Speed Robot Hand-Arm. , 2021, , .		2
7	Motion Strategy Using Opponent Player's Serial Learning for Air-Hockey Robots. , 2021, , .		1
8	Toward Dynamic Manipulation of Flexible Objects by High-Speed Robot System: From Static to Dynamic. , 2020, , .		0
9	High-speed Target Tracking of 3D Object by Monocular camera. , 2020, , .		1
10	Direct visual servoing of UAVs using onboard monocular camera. , 2020, , .		1
11	Target Tracking of Moving and Rotating Object by High-Speed Monocular Active Vision. <i>IEEE Sensors Journal</i> , 2020, 20, 6727-6744.	4.7	18
12	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
13	Juggling Robot and Air-Hockey Robot. <i>Journal of the Robotics Society of Japan</i> , 2020, 38, 307-312.	0.1	0
14	High-Speed Catching by Multi-Vision Robot Hand. , 2020, , .		8
15	Autonomous Target Tracking of UAV Using High-Speed Visual Feedback. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4552.	2.5	37
16	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
17	Development of an Active High-Speed 3-D Vision System. <i>Sensors</i> , 2019, 19, 1572.	3.8	8
18	ImPACT-TRC Legged Robot Improvement and User Interface. <i>Journal of the Robotics Society of Japan</i> , 2019, 37, 818-823.	0.1	1

#	ARTICLE	IF	CITATIONS
19	Assist Control for Dual Arm Cooperative Manipulation by Remote Controlled Robot. , 2018, , .		1
20	Assistance for Master-Slave System for Objects of Various Shapes by Eye Gaze Tracking and Motion Prediction. , 2018, , .		1
21	Paper State Estimation Using Physical Model and Trajectory Planning of Multi-Fingered Robot Hand. , 2018, , .		1
22	Mapping Grasping Motion of Hand between Master and Slave in a Low-Dimensional Latent Space. , 2018, , .		0
23	Real-time Player's Posture Measurement System for Air-Hockey Robot. , 2018, , .		3
24	High-Speed Orientation Measurement of a Moving Object with Patterned Light Projection and Model Matching. , 2018, , .		0
25	Trajectory Generation for Juggling Considering Dynamics of Multifingered Hand-arm. Transactions of the Society of Instrument and Control Engineers, 2018, 54, 46-54.	0.2	0
26	High-Resolution and High-Frame-Rate Image Estimation with Heterogeneous Cameras. , 2018, , .		0
27	Velocity Estimation for UAVs by Using High-Speed Vision. Journal of Robotics and Mechatronics, 2018, 30, 363-372.	1.0	3
28	Vision-based predictive assist control on master-slave systems. , 2017, , .		11
29	Ball juggling robot system controlled by high-speed vision. , 2017, , .		3
30	Vision-based batting training system. , 2017, , .		1
31	Development of a fishhook-type robot hand: EEL-hand. , 2017, , .		1
32	Vision-Based Optimal Control for an Air-Hockey Robot System. , 2017, , .		3
33	Planning of Knotting Based on Manipulation Skills with Consideration of Robot Mechanism/Motion and Its Realization by a Robot Hand System. Symmetry, 2017, 9, 194.	2.2	4
34	Efficient Active Sensing with Categorized Further Explorations for a Home Behavior-Monitoring Robot. Journal of Healthcare Engineering, 2017, 2017, 1-16.	1.9	6
35	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
36	Assist control for ball catching using high-speed vision on a master-slave robot. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
37	Origami operations by multifingered robot hand with realtime 3D shape estimation of paper. , 2016, , .		3
38	High-speed 3-D measurement of a moving object with visual servo. , 2016, , .		1
39	Algorithm for optimizing attack motions for air-hockey robot by two-step look ahead prediction. , 2016, , .		5
40	Operation assistance using visual feedback with considering human intention on master-slave systems. , 2016, , .		6
41	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
42	Autonomous Flight of Hexacopter Under Propulsion System Failure. Journal of Robotics and Mechatronics, 2016, 28, 899-910.	1.0	4
43	Sliding Mode Control for Hexacopter Stabilization with Motor Failure. Journal of Robotics and Mechatronics, 2016, 28, 936-948.	1.0	4
44	A decision-making algorithm for an air-hockey robot that decides actions depending on its opponent player's motions. , 2015, , .		4
45	Analysis and Realization of Card Flicking Manipulation Using a High-Speed Robot Hand. International Journal of Advanced Robotic Systems, 2015, 12, 130.	2.1	0
46	Operation assist for a teleoperated robot system controlled with a lightweight and high-operable master device. , 2015, , .		4
47	Real-time 3D recognition of manipulated object by robot hand using 3D sensor. , 2015, , .		1
48	Robotic origami folding with dynamic motion primitives. , 2015, , .		13
49	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
50	Ball catching in kendama game by estimating grasp conditions based on a high-speed vision system and tactile sensors. , 2014, , .		16
51	1A1-D06 Development of a Sword-Fighting robot by High-Speed Vision(Robots for Amusement and) Tj ETQq1 1 0.784314 rgBT /Overl (Robomec), 2014, 2014, _1A1-D06_1-_1A1-D06_4.	0.0	1
52	Hierarchical processing architecture for an air-hockey robot system. , 2013, , .		22
53	Dexterous manipulation of a rhythmic gymnastics ribbon with constant, high-speed motion of a high-speed manipulator. , 2013, , .		10
54	Dynamic High-Speed Knotting of a Rope by a Manipulator. International Journal of Advanced Robotic Systems, 2013, 10, 361.	2.1	18

#	ARTICLE	IF	CITATIONS
55	Control of Projected Images on Movable and Deformable Screens Using Visual Servoing. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2013, 79, 4757-4769.	0.2	2
56	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
57	Card manipulation using a high-speed robot system with high-speed visual feedback. , 2012, , .		2
58	Ultra high-speed Robot Based on 1 kHz vision system. , 2012, , .		17
59	Simple Model and Deformation Control of a Flexible Rope using Constant, High-Speed Motion of a Robot Arm. , 2012, , .		19
60	Two ball juggling with high-speed hand-arm and high-speed vision system. , 2012, , .		28
61	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
62	Tweezers manipulation using high-speed visual servoing based on contact analysis. , 2011, , .		5
63	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
64	Teaching system for multifingered robot hands using kinetic information of manipulated objects. , 2011, , .		0
65	Motion planning for dynamic folding of a cloth with two high-speed robot hands and two high-speed sliders. , 2011, , .		42
66	Motion planning for dynamic knotting of a flexible rope with a high-speed robot arm. , 2010, , .		41
67	Dexterous handling using a multifingered hand with finger rotation mechanism. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2010, 2010.5, 439-443.	0.0	0
68	High-speed Visual Feedback Control for Grasping and Manipulation. Lecture Notes in Control and Information Sciences, 2010, , 39-53.	1.0	1
69	Knotting Manipulation of a Flexible Rope Using a High-speed Multifingered Hand and High-speed Visual and Tactile Sensory Feedback. Journal of the Robotics Society of Japan, 2009, 27, 1016-1024.	0.1	3
70	Skillful manipulation based on high-speed sensory-motor fusion. , 2009, , .		23
71	High Speed Dexterous Manipulation with High Speed Vision. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 395-400.	0.4	3
72	Grasping force control of multi-fingered robot hand based on slip detection using tactile sensor. , 2008, , .		59

#	ARTICLE	IF	CITATIONS
73	Sensory-motor integration for dexterous high-speed handling. , 2008, , .		0
74	Tweezers type tool manipulation by a multifingered hand using a high-speed visual servoing. , 2008, , .		9
75	Knotting manipulation of a flexible rope by a multifingered hand system based on skill synthesis. , 2008, , .		18
76	High-speed throwing motion based on kinetic chain approach. , 2008, , .		58
77	Grasping force control of multi-fingered robot hand based on slip detection using tactile sensor. , 2008, , .		7
78	One-handed knotting of a flexible rope with a high-speed multifingered hand having tactile sensors. , 2007, , .		35
79	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
80	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
81	Dynamic Pen Spinning Using a High-speed Multifingered Hand with High-speed Tactile Sensor. , 2006, , .		31
82	Visuomotor Integration in High-speed Manipulation System. , 2006, , .		7
83	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 ETQq1 1 0.784314 rgBT JOverloc		
84	Hybrid Trajectory Generation of an Articulated Manipulator for High-speed Batting. Journal of the Robotics Society of Japan, 2006, 24, 515-522.	0.1	4
85	Development of Four-Fingered Robot Hand with Dual Turning Mechanism. Journal of the Robotics Society of Japan, 2006, 24, 813-819.	0.1	3
86	Safe human-robot-coexistence: emergency-stop using a high-speed vision-chip. , 2005, , .		22
87	Robot dribbling using a high-speed multifingered hand and a high-speed vision system. , 2005, , .		17
88	A Tactile Sensor Sheet Using Pressure Conductive Rubber With Electrical-Wires Stitched Method. IEEE Sensors Journal, 2004, 4, 589-596.	4.7	375
89	The 100 G capturing robot - too fast to see. IEEE/ASME Transactions on Mechatronics, 2003, 8, 37-44.	5.8	71
90	A Hierarchical Control Architecture for High-Speed Visual Servoing. International Journal of Robotics Research, 2003, 22, 873-888.	8.5	17

#	ARTICLE	IF	CITATIONS
91	Visuomotor Architecture for High-Speed Robot Control. , 2003, , 323-337.		0
92	High-speed sensory-motor fusion for robotic grasping. Measurement Science and Technology, 2002, 13, 1767-1778.	2.6	15
93	High-speed sensory-motor fusion based on dynamics matching. Proceedings of the IEEE, 2002, 90, 1178-1187.	21.3	16
94	For the Realization of High-speed Manipulation. Journal of the Robotics Society of Japan, 2002, 20, 149-150.	0.1	0
95	1-ms sensory-motor fusion system. IEEE/ASME Transactions on Mechatronics, 2000, 5, 244-252.	5.8	48
96	Optimal Grasping Using Visual and Tactile Feedback.. Journal of the Robotics Society of Japan, 2000, 18, 261-269.	0.1	2
97	Artificial Hand-brain System Based on Sensory-Motor Fusion Theory. Journal of the Robotics Society of Japan, 2000, 18, 805-806.	0.1	0
98	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
99	Manipulation by a multifingered hand using high-speed visual feedback. Advanced Robotics, 1999, 13, 285-286.	1.8	0
100	Manipulation by a multifingered hand using high-speed visual feedback. Advanced Robotics, 1998, 13, 285-286.	1.8	0
101	The Analysis of High-speed Catching with a Multifingered Robot Hand. , 0, , .		6
102	A New Four-Fingered Robot Hand with Dual Turning Mechanism. , 0, , .		14
103	Dynamic regrasping using a high-speed multifingered hand and a high-speed vision system. , 0, , .		109
104	Ball control in high-speed batting motion using hybrid trajectory generator. , 0, , .		58
105	Tweezers Type Tool Manipulation by a Multifinger Hand Using a High-Speed Visual Servoing. , 0, , .		2
106	Vision-Based Online Trajectory Generation and Its Application to Catching. , 0, , 249-264.		5