

Zhangguo Yu

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.

92
papers

518
citations

11
h-index

17
g-index

126
ext. papers

709
ext. citations

2.8
avg, IF

3.82
L-index

#	Paper	IF	Citations
92	Resistant Compliance Control for Biped Robot Inspired by Humanlike Behavior. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-11	5.5	3
91	Adaptability Control Towards Complex Ground Based on Fuzzy Logic for Humanoid Robots. <i>IEEE Transactions on Fuzzy Systems</i> , 2022 , 1-1	8.3	2
90	Stride Length and Stepping Duration Adjustments Based on Center of Mass Stabilization Control. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-11	5.5	1
89	Falling Prediction based on Machine Learning for Biped Robots. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 103, 1	2.9	1
88	Bio-Inspired Take-Off Maneuver and Control in Vertical Jumping for Quadruped Robot with Manipulator. <i>Micromachines</i> , 2021 , 12,	3.3	1
87	Design and Implementation of Symmetric Legged Robot for Highly Dynamic Jumping and Impact Mitigation. <i>Sensors</i> , 2021 , 21,	3.8	1
86	Continuous Jumping Control Based on Virtual Model Control for a One-Leg Robot Platform. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2021 , 24-33	0.6	
85	Dynamic Torso Compliance Control for Standing and Walking Balance of Position-Controlled Humanoid Robots. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 679-688	5.5	4
84	Development of robotic polishing/fettling system on ceramic pots. <i>International Journal of Advanced Robotic Systems</i> , 2021 , 18, 172988142110128	1.4	2
83	A guide-weight criterion-based topology optimization method for maximizing the fundamental eigenfrequency of the continuum structure. <i>Structural and Multidisciplinary Optimization</i> , 2021 , 64, 2135	3.6	1
82	2021 ,		2
81	Controllable Height Hopping of a Parallel Legged Robot. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1421	2.6	3
80	Ball Tracking and Trajectory Prediction for Table-Tennis Robots. <i>Sensors</i> , 2020 , 20,	3.8	10
79	Combination of Hardware and Control to Reduce Humanoids Fall Damage. <i>International Journal of Humanoid Robotics</i> , 2020 , 17, 2050002	1.2	0
78	Structural Design and Crawling Pattern Generator of a Planar Quadruped Robot for High-Payload Locomotion. <i>Sensors</i> , 2020 , 20,	3.8	8
77	Dynamic Torso Posture Compliance Control for Standing Balance of Position-Controlled Humanoid Robots 2020 ,		2
76	A model to predict ground reaction force for elastically-suspended backpacks. <i>Gait and Posture</i> , 2020 , 82, 118-125	2.6	7

75	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3442-3451	8.9	9
74	Contact Force/Torque Control Based on Viscoelastic Model for Stable Bipedal Walking on Indefinite Uneven Terrain. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019 , 16, 1627-1639	4.9	14
73	Gait Transition Between Standing and Falling Down for a Humanoid Robot. <i>Mechanisms and Machine Science</i> , 2019 , 2501-2509	0.3	1
72	A Falling Forwards Protection Strategy for Humanoid Robots. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2019 , 314-322	0.6	
71	A novel hierarchical control strategy for biped robot walking on uneven terrain 2019 ,		3
70	Walking Control of Biped Robots on Uneven Terrains Based on SLIP Model 2019 ,		3
69	Historical Development of BHR Humanoid Robots. <i>History of Mechanism and Machine Science</i> , 2019 , 310-323		4
68	Disturbance Rejection for Biped Walking Using Zero-Moment Point Variation Based on Body Acceleration. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 2265-2276	11.9	22
67	Motion Planning for Bipedal Robot to Perform Jump Maneuver. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 139	2.6	7
66	Master-Slave Control of an Intention-Actuated Exoskeletal Robot for Locomotion and Lower Extremity Rehabilitation. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018 , 19, 983-991	1.7	10
65	A Falling Motion Strategy for Humanoids Based on Motion Primitives of Human Falling. <i>Mechanisms and Machine Science</i> , 2018 , 264-272	0.3	2
64	Development of a Bipedal Robot with Bi-articular Muscle-tendon Complex between Hip and Knee Joint 2018 ,		3
63	Simultaneous Prevention of Rotational and Translational Slip for a Humanoid Robot. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1554	2.6	1
62	Introduction of Toe Mechanism with Bi-articular Tendon into Legged Robot 2018 ,		1
61	Turning Gait Planning Method for Humanoid Robots. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1257	2.6	4
60	A novel under-actuated bionic hand and its grasping stability analysis. <i>Advances in Mechanical Engineering</i> , 2017 , 9, 168781401668885	1.2	2
59	Bioinspired Control of Walking With Toe-Off, Heel-Strike, and Disturbance Rejection for a Biped Robot. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 7962-7971	8.9	32
58	A minimized falling damage method for humanoid robots. <i>International Journal of Advanced Robotic Systems</i> , 2017 , 14, 172988141772801	1.4	2

57	Design and control of robot legs with bi-articular muscle-tendon complex 2017 ,		3
56	Trajectory optimization of humanoid robots swinging leg 2017 ,		2
55	Biomimetic upper limb mechanism of humanoid robot for shock resistance based on viscoelasticity 2017 ,		2
54	An experimental characterization of human falling down. <i>Mechanical Sciences</i> , 2017 , 8, 79-89	1.3	7
53	Rolling motion generation of multi-points contact for a humanoid robot 2016 ,		1
52	Impact motion control of humanoid robot BHR-5 based on the energy integral method. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401562602	1.2	1
51	Development of a Socially Interactive System with Whole-Body Movements for BHR-4. <i>International Journal of Social Robotics</i> , 2016 , 8, 183-192	4	1
50	Gait Planning of Omnidirectional Walk on Inclined Ground for Biped Robots. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 46, 888-897	7.3	26
49	Disturbance Rejection Controller for Biped Walking Using Real-Time ZMP Regulation. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2016 , 179-188	0.6	2
48	Exploiting human walking speed transitions using a dynamic bipedal walking robot with controllable stiffness and limb coordination 2016 ,		1
47	Realization of foot rotation by breaking the kinematic contact constraint. <i>Robotica</i> , 2016 , 34, 1059-1070	2.1	
46	A walking control strategy combining global sensory reflex and leg synchronization. <i>Robotica</i> , 2016 , 34, 973-994	2.1	8
45	Passive buffering arm for a humanoid robot against falling damage 2016 ,		2
44	Hand-eye servo and impedance control for manipulator arm to capture target satellite safely. <i>Robotica</i> , 2015 , 33, 848-864	2.1	13
43	A torque limiter for safe joint applied to humanoid robots against falling damage 2015 ,		6
42	A falling motion control of humanoid robots based on biomechanical evaluation of falling down of humans 2015 ,		6
41	A Robust Vision Module for Humanoid Robotic Ping-Pong Game. <i>International Journal of Advanced Robotic Systems</i> , 2015 , 12, 35	1.4	5
40	Designation and Control of Landing Points for Competitive Robotic Table Tennis. <i>International Journal of Advanced Robotic Systems</i> , 2015 , 12, 92	1.4	1

39	Integral Acceleration Generation for Slip Avoidance in a Planar Humanoid Robot. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 2924-2934	5.5	10
38	Slip prevention of a humanoid robot by coordinating acceleration vector 2014 ,		1
37	Modeling and design of a humanoid robotic face based on an active drive points model. <i>Advanced Robotics</i> , 2014 , 28, 379-388	1.7	13
36	Omnidirectional Disturbance Rejection for a Biped Robot by Acceleration Optimization. <i>Intelligent Automation and Soft Computing</i> , 2014 , 20, 471-485	2.6	2
35	Robust push recovery by whole-body dynamics control with extremal accelerations. <i>Robotica</i> , 2014 , 32, 467-476	2.1	10
34	Design of a Redundant Manipulator for Playing Table Tennis towards Human-Like Stroke Patterns. <i>Advances in Mechanical Engineering</i> , 2014 , 6, 807458	1.2	6
33	Design and Development of the Humanoid Robot BHR-5. <i>Advances in Mechanical Engineering</i> , 2014 , 6, 852937	1.2	22
32	System design of a 9-DOF robot capable of fast and flexible rally task 2014 ,		2
31	Bipedal walking with toe-off, heel-strike and compliance with external disturbances 2014 ,		3
30	A universal pattern generator for biped walking on 3D slopes 2014 ,		1
29	Stability control for biped walking based on phase modification during double support period 2014 ,		1
28	Decentralised adaptive control of cooperating Robotic manipulators with disturbance observers. <i>IET Control Theory and Applications</i> , 2014 , 8, 515-521	2.5	33
27	Human-like walking patterns with pelvic rotation for a humanoid robot 2014 ,		3
26	Bio-inspired falling motion control for a biped humanoid robot 2014 ,		9
25	Experiments of a Human-Robot Social Interactive System with Whole-Body Movements. <i>Mechanisms and Machine Science</i> , 2014 , 501-508	0.3	1
24	Control of one-legged robot hopping in place 2013 ,		2
23	Trot pattern generation for quadruped robot based on the ZMP stability margin 2013 ,		5
22	Design of a humanoid ping-pong player robot with redundant joints 2013 ,		7

21	A dual-motor joint model for humanoid robots 2013 ,		1
20	The Mechanism of Yaw Torque Compensation in the Human and Motion Design for Humanoid Robots. <i>International Journal of Advanced Robotic Systems</i> , 2013 , 10, 57	1.4	11
19	Stepping to recover: A 3D-LIPM based push recovery and fall management scheme for biped robots 2012 ,		4
18	Inverse dynamics control with acceleration optimization on a force-controlled bipedal robot 2012 ,		3
17	Humanoid walking pattern generation based on the ground reaction force features of human walking 2012 ,		2
16	System design of an Anthropomorphic arm robot for dynamic interaction task 2011 ,		3
15	Design and workspace analysis of a light weight and high stiffness arm 2011 ,		1
14	An improved ZMP trajectory design for the biped robot BHR 2011 ,		2
13	Ping-pong trajectory perception and prediction by a PC based High speed four-camera vision system 2011 ,		2
12	Design and similarity evaluation on humanoid motion based on human motion capture. <i>Robotica</i> , 2010 , 28, 737-745	2.1	23
11	Control design of a biped humanoid robot capable of facial expression 2010 ,		1
10	Mechanical design and balance control of a Humanoid Waist Joint 2010 ,		2
9	Dynamic model based ball trajectory prediction for a robot ping-pong player 2010 ,		19
8	Design of the Facial Expression Mechanism for Humanoid Robots. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2010 , 433-440	0.6	1
7	On-line trajectory generation for a humanoid robot based on combination of off-line patterns 2009 ,		2
6	Mechanical design of a light weight and high stiffness arm for humanoids 2009 ,		3
5	Flexible foot design for a humanoid robot 2008 ,		4
4	Generation of humanoid walking pattern based on human walking measurement 2008 ,		6

- 3 Computer control system and walking pattern control for a humanoid robot **2008**, 9
- 2 Measurement of human walking and generation of humanoid walking pattern **2007**, 2
- 1 Distributed Control System for a Humanoid Robot **2007**, 10