

Zhangguo Yu

List of Publications by Citations

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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 | Decentralised adaptive control of cooperating Robotic manipulators with disturbance observers. <i>IET Control Theory and Applications</i> , 2014 , 8, 515-521 | 2.5 | 33 |
| 91 | 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 |
| 90 | 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 |
| 89 | Design and similarity evaluation on humanoid motion based on human motion capture. <i>Robotica</i> , 2010 , 28, 737-745 | 2.1 | 23 |
| 88 | Design and Development of the Humanoid Robot BHR-5. <i>Advances in Mechanical Engineering</i> , 2014 , 6, 852937 | 1.2 | 22 |
| 87 | 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 |
| 86 | Dynamic model based ball trajectory prediction for a robot ping-pong player 2010 , | | 19 |
| 85 | 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 |
| 84 | Hand-eye servo and impedance control for manipulator arm to capture target satellite safely. <i>Robotica</i> , 2015 , 33, 848-864 | 2.1 | 13 |
| 83 | 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 |
| 82 | 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 |
| 81 | Ball Tracking and Trajectory Prediction for Table-Tennis Robots. <i>Sensors</i> , 2020 , 20, | 3.8 | 10 |
| 80 | 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 |
| 79 | Robust push recovery by whole-body dynamics control with extremal accelerations. <i>Robotica</i> , 2014 , 32, 467-476 | 2.1 | 10 |
| 78 | 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 |
| 77 | Distributed Control System for a Humanoid Robot 2007 , | | 10 |
| 76 | Bio-inspired falling motion control for a biped humanoid robot 2014 , | | 9 |

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| 75 | Computer control system and walking pattern control for a humanoid robot 2008 , | | 9 |
| 74 | . <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3442-3451 | 8.9 | 9 |
| 73 | Structural Design and Crawling Pattern Generator of a Planar Quadruped Robot for High-Payload Locomotion. <i>Sensors</i> , 2020 , 20, | 3.8 | 8 |
| 72 | A walking control strategy combining global sensory reflex and leg synchronization. <i>Robotica</i> , 2016 , 34, 973-994 | 2.1 | 8 |
| 71 | Motion Planning for Bipedal Robot to Perform Jump Maneuver. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 139 | 2.6 | 7 |
| 70 | Design of a humanoid ping-pong player robot with redundant joints 2013 , | | 7 |
| 69 | An experimental characterization of human falling down. <i>Mechanical Sciences</i> , 2017 , 8, 79-89 | 1.3 | 7 |
| 68 | A model to predict ground reaction force for elastically-suspended backpacks. <i>Gait and Posture</i> , 2020 , 82, 118-125 | 2.6 | 7 |
| 67 | 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 |
| 66 | A torque limiter for safe joint applied to humanoid robots against falling damage 2015 , | | 6 |
| 65 | A falling motion control of humanoid robots based on biomechanical evaluation of falling down of humans 2015 , | | 6 |
| 64 | Generation of humanoid walking pattern based on human walking measurement 2008 , | | 6 |
| 63 | Trot pattern generation for quadruped robot based on the ZMP stability margin 2013 , | | 5 |
| 62 | A Robust Vision Module for Humanoid Robotic Ping-Pong Game. <i>International Journal of Advanced Robotic Systems</i> , 2015 , 12, 35 | 1.4 | 5 |
| 61 | Stepping to recover: A 3D-LIPM based push recovery and fall management scheme for biped robots 2012 , | | 4 |
| 60 | Flexible foot design for a humanoid robot 2008 , | | 4 |
| 59 | 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 |
| 58 | Historical Development of BHR Humanoid Robots. <i>History of Mechanism and Machine Science</i> , 2019 , 310-323 | | 4 |

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|----|--|-----|---|
| 57 | Turning Gait Planning Method for Humanoid Robots. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1257 | 2.6 | 4 |
| 56 | Design and control of robot legs with bi-articular muscle-tendon complex 2017 , | | 3 |
| 55 | Bipedal walking with toe-off, heel-strike and compliance with external disturbances 2014 , | | 3 |
| 54 | Human-like walking patterns with pelvic rotation for a humanoid robot 2014 , | | 3 |
| 53 | Inverse dynamics control with acceleration optimization on a force-controlled bipedal robot 2012 , | | 3 |
| 52 | System design of an Anthropomorphic arm robot for dynamic interaction task 2011 , | | 3 |
| 51 | Mechanical design of a light weight and high stiffness arm for humanoids 2009 , | | 3 |
| 50 | Resistant Compliance Control for Biped Robot Inspired by Humanlike Behavior. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-11 | 5.5 | 3 |
| 49 | A novel hierarchical control strategy for biped robot walking on uneven terrain 2019 , | | 3 |
| 48 | Walking Control of Biped Robots on Uneven Terrains Based on SLIP Model 2019 , | | 3 |
| 47 | Controllable Height Hopping of a Parallel Legged Robot. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1421 | 2.6 | 3 |
| 46 | Development of a Bipedal Robot with Bi-articular Muscle-tendon Complex between Hip and Knee Joint 2018 , | | 3 |
| 45 | A novel under-actuated bionic hand and its grasping stability analysis. <i>Advances in Mechanical Engineering</i> , 2017 , 9, 168781401668885 | 1.2 | 2 |
| 44 | A minimized falling damage method for humanoid robots. <i>International Journal of Advanced Robotic Systems</i> , 2017 , 14, 172988141772801 | 1.4 | 2 |
| 43 | Omnidirectional Disturbance Rejection for a Biped Robot by Acceleration Optimization. <i>Intelligent Automation and Soft Computing</i> , 2014 , 20, 471-485 | 2.6 | 2 |
| 42 | Control of one-legged robot hopping in place 2013 , | | 2 |
| 41 | Trajectory optimization of humanoid robots swinging leg 2017 , | | 2 |
| 40 | Biomimetic upper limb mechanism of humanoid robot for shock resistance based on viscoelasticity 2017 , | | 2 |

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| 39 | System design of a 9-DOF robot capable of fast and flexible rally task 2014 , | | 2 |
| 38 | Humanoid walking pattern generation based on the ground reaction force features of human walking 2012 , | | 2 |
| 37 | Mechanical design and balance control of a Humanoid Waist Joint 2010 , | | 2 |
| 36 | An improved ZMP trajectory design for the biped robot BHR 2011 , | | 2 |
| 35 | Ping-pong trajectory perception and prediction by a PC based High speed four-camera vision system 2011 , | | 2 |
| 34 | On-line trajectory generation for a humanoid robot based on combination of off-line patterns 2009 , | | 2 |
| 33 | Measurement of human walking and generation of humanoid walking pattern 2007 , | | 2 |
| 32 | Dynamic Torso Posture Compliance Control for Standing Balance of Position-Controlled Humanoid Robots 2020 , | | 2 |
| 31 | Development of robotic polishing/fettling system on ceramic pots. <i>International Journal of Advanced Robotic Systems</i> , 2021 , 18, 172988142110128 | 1.4 | 2 |
| 30 | 2021 , | | 2 |
| 29 | 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 |
| 28 | Passive buffering arm for a humanoid robot against falling damage 2016 , | | 2 |
| 27 | 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 |
| 26 | 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 |
| 25 | Rolling motion generation of multi-points contact for a humanoid robot 2016 , | | 1 |
| 24 | 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 |
| 23 | 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 |
| 22 | Gait Transition Between Standing and Falling Down for a Humanoid Robot. <i>Mechanisms and Machine Science</i> , 2019 , 2501-2509 | 0.3 | 1 |

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|----|--|-----|---|
| 21 | Slip prevention of a humanoid robot by coordinating acceleration vector 2014 , | | 1 |
| 20 | 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 |
| 19 | A universal pattern generator for biped walking on 3D slopes 2014 , | | 1 |
| 18 | Stability control for biped walking based on phase modification during double support period 2014 , | | 1 |
| 17 | A dual-motor joint model for humanoid robots 2013 , | | 1 |
| 16 | Control design of a biped humanoid robot capable of facial expression 2010 , | | 1 |
| 15 | Design and workspace analysis of a light weight and high stiffness arm 2011 , | | 1 |
| 14 | 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 |
| 13 | Bio-Inspired Take-Off Maneuver and Control in Vertical Jumping for Quadruped Robot with Manipulator. <i>Micromachines</i> , 2021 , 12, | 3.3 | 1 |
| 12 | Design and Implementation of Symmetric Legged Robot for Highly Dynamic Jumping and Impact Mitigation. <i>Sensors</i> , 2021 , 21, | 3.8 | 1 |
| 11 | Experiments of a Human-Robot Social Interactive System with Whole-Body Movements. <i>Mechanisms and Machine Science</i> , 2014 , 501-508 | 0.3 | 1 |
| 10 | 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 |
| 9 | 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 |
| 8 | Exploiting human walking speed transitions using a dynamic bipedal walking robot with controllable stiffness and limb coordination 2016 , | | 1 |
| 7 | Simultaneous Prevention of Rotational and Translational Slip for a Humanoid Robot. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1554 | 2.6 | 1 |
| 6 | Introduction of Toe Mechanism with Bi-articular Tendon into Legged Robot 2018 , | | 1 |
| 5 | 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 |
| 4 | Combination of Hardware and Control to Reduce Humanoids Fall Damage. <i>International Journal of Humanoid Robotics</i> , 2020 , 17, 2050002 | 1.2 | 0 |

- 3 A Falling Forwards Protection Strategy for Humanoid Robots. *CISM International Centre for Mechanical Sciences, Courses and Lectures*, **2019**, 314-322 o.6
- 2 Continuous Jumping Control Based on Virtual Model Control for a One-Leg Robot Platform. *CISM International Centre for Mechanical Sciences, Courses and Lectures*, **2021**, 24-33 o.6
- 1 Realization of foot rotation by breaking the kinematic contact constraint. *Robotica*, **2016**, 34, 1059-1070_{2.1}