# Khalil Alipour

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9315046/publications.pdf

Version: 2024-02-01

| 47 | 562 | 687363 13 | 713466 21 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 48 | 48 | 48 | 484 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Dynamics modeling and sliding mode control of tractor-trailer wheeled mobile robots subject to wheels slip. Mechanism and Machine Theory, 2019, 138, 16-37. | 4.5 | 67 |
| 2 | Control of tractor-trailer wheeled robots considering self-collision effect and actuator saturation limitations. Mechanical Systems and Signal Processing, 2019, 127, 388-411. | 8.0 | 52 |
| 3 | ASR glove: A wearable glove for hand assistance and rehabilitation using shape memory alloys. Journal of Intelligent Material Systems and Structures, 2018, 29, 1575-1585. | 2.5 | 45 |
| 4 | Developing a novel continuum module actuated by shape memory alloys. Sensors and Actuators A: Physical, 2016, 243, 90-102. | 4.1 | 27 |
| 5 | Moment-Height Tip-Over Measure for Stability Analysis of Mobile Robotic Systems. , 2006, , . | | 25 |
| 6 | Design and control of a lower limb rehabilitation robot considering undesirable torques of the patientâ€™s limb. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 1457-1471. | 1.8 | 25 |
| 7 | A kinematic Lyapunov-based controller to posture stabilization of wheeled mobile robots. Mechanical Systems and Signal Processing, 2019, 134, 106319. | 8.0 | 24 |
| 8 | Developing an adaptable pipe inspection robot using shape memory alloy actuators. Journal of Intelligent Material Systems and Structures, 2020, 31, 632-647. | 2.5 | 24 |
| 9 | A full-state trajectory tracking controller for tractor-trailer wheeled mobile robots. Mechanism and Machine Theory, 2020, 150, 103872. | 4.5 | 24 |
| 10 | How to ensure stable motion of suspended wheeled mobile robots. Industrial Robot, 2011, 38, 139-152. | 2.1 | 20 |
| 11 | Synergy-Based Gaussian Process Estimation of Ankle Angle and Torque: Conceptualization for High Level Controlling of Active Robotic Foot Prostheses/Orthoses. Journal of Biomechanical Engineering, 2019, 141, . | 1.3 | 16 |
| 12 | Comparison of various input shaping methods in rest-to-rest motion of the end-effecter of a rigid-flexible robotic system with large deformations capability. Mechanical Systems and Signal Processing, 2019, 118, 584-602. | 8.0 | 16 |
| 13 | Effect of Terrain Traction, Suspension Stiffness and Grasp Posture on the Tip-Over Stability of Wheeled Robots with Multiple Arms. Advanced Robotics, 2012, 26, 817-842. | 1.8 | 14 |
| 14 | Dynamically stable motion planning of wheeled robots for heavy object manipulation. Advanced Robotics, 2015, 29, 545-560. | 1.8 | 14 |
| 15 | Dynamics modeling and attitude control of a flexible space system with active stabilizers. Nonlinear Dynamics, 2016, 84, 2535-2545. | 5.2 | 13 |
| 16 | Stability Evaluation of Mobile Robotic Systems using Moment-Height Measure. , 2006, , . | | 12 |
| 17 | On the capability of wheeled mobile robots for heavy object manipulation considering dynamic stability constraints. Multibody System Dynamics, 2017, 41, 101-123. | 2.7 | 12 |
| 18 | Tracking-Error Fuzzy-Based Control for Nonholonomic Wheeled Robots. Arabian Journal for Science and Engineering, 2019, 44, 881-892. | 3.0 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Kinematics and dynamics of a hybrid serial-parallel mobile robot. , 2009, , . | | 11 |
| 20 | Near-time-optimal motion control for flexible-link systems using absolute nodal coordinates formulation. Mechanism and Machine Theory, 2019, 140, 686-710. | 4.5 | 10 |
| 21 | A self-tuning trajectory tracking controller for wheeled mobile robots. Industrial Robot, 2019, 46, 828-838. | 2.1 | 10 |
| 22 | Dynamics modeling and tip-over stability of suspended wheeled mobile robots with multiple arms. , 2007, , . | | 9 |
| 23 | Dynamics and stability of a hybrid serial-parallel mobile robot. Mathematical and Computer Modelling of Dynamical Systems, 2010, 16, 35-56. | 2.2 | 8 |
| 24 | New Adaptive Segmented Wheel for Locomotion Improvement of Field Robots on Soft Terrain. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 97, 695-717. | 3.4 | 8 |
| 25 | A new approach for Kinematics-based design of 3-RRR delta robots with a specified workspace. , 2015, , . | | 7 |
| 26 | Kinematic analysis of Darwin's humanoid robot. , 2016, , . | | 6 |
| 27 | Formation control of multiple wheeled mobile robots based on model predictive control. Robotica, 2022, 40, 3178-3213. | 1.9 | 6 |
| 28 | Postural stability of wheeled mobile manipulators with flexible suspension considering tire friction model. , 2009, , . | | 5 |
| 29 | Point-to-point stable motion planning of wheeled mobile robots with multiple arms for heavy object manipulation. , 2011, , . | | 5 |
| 30 | An algorithm for dynamic object manipulation by a flexible link robot. Engineering Computations, 2016, 33, 1508-1529. | 1.4 | 5 |
| 31 | The Effect of Remote Center Compliance Parameters on Formation Control of Cooperative Wheeled Mobile Robots for Object Manipulation. International Journal of Control, Automation and Systems, 2018, 16, 306-317. | 2.7 | 5 |
| 32 | Control of Nonholonomic Electrically-Driven Tractor-Trailer Wheeled Robots based on Adaptive Partial Linearization. , 2018, , . | | 4 |
| 33 | 6AP wheel: A new transformable robotic wheel for traction force improvement and halting avoidance of a UGV on soft terrains. Mechanics Based Design of Structures and Machines, 2022, 50, 3370-3385. | 4.7 | 4 |
| 34 | Design and Implementation of a Cable Driven Lower Limb Exoskeleton for Stair Climbing. , 2017, , . | | 3 |
| 35 | Continuous mobility of mobile robots with a special ability for overcoming driving failure on rough terrain. Robotica, 2017, 35, 2076-2096. | 1.9 | 2 |
| 36 | Learning a model-free robotic continuous state-action task through contractive Q-network. , 2017, , . | | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | A New Sensor for Robotic Mars Rovers in Sandy Terrains Predicting Critical Soil Flow Using the Spiral Soil Flow Model. Robotica, 2021, 39, 346-365. | 1.9 | 2 |
| 38 | Falling Analysis and Examination of Different Novel Strategies for Preserving the Postural Stability of a User Wearing ASR-EXO during Stair Climbing. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 105, 1. | 3.4 | 2 |
| 39 | Postural stability evaluation of spatial wheeled mobile robots with flexible suspension over rough terrains. , 2008, , . | | 1 |
| 40 | Best parameters of flexible link manipulator systems for Dynamic Object Manipulation execution. , 2015, , . | | 1 |
| 41 | Conceptual design of a lower limb exoskeleton actuated by shape memory alloys for assisting elderly people in stair climbing. , 2016, , . | | 1 |
| 42 | Knee rehabilitation robot control by Sliding-Backstepping and Admittance control. , 2017, , . | | 1 |
| 43 | Design and Prototyping a New Add-on Module to Increase Traction Force of a Wheeled Sewer Inspection Robot. , 2017, , . | | 1 |
| 44 | Alleviating Credit Assignment problem using deep representation learning with application to Push Recovery learning. , 2017, , . | | 0 |
| 45 | Design of a High Level Controller for Active Foot Prostheses using Gaussian Process Intent Recognition. , 2017, , . | | 0 |
| 46 | Impact of Electro-mechanical Properties of the Actuation Mechanism on the Peak Power and Energy Requirements of Active Foot Prostheses. , 2017, , . | | 0 |
| 47 | A numerical algorithm to find optimum parameters of a flexible-link manipulator arm for performing payload launching. Engineering Computations, 2021, ahead-of-print, . | 1.4 | 0 |