

Walter Schumacher

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8970713/publications.pdf>

Version: 2024-02-01

29
papers

382
citations

1307594

7
h-index

1281871

11
g-index

29
all docs

29
docs citations

29
times ranked

469
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Caroline: An autonomously driving vehicle for urban environments. <i>Journal of Field Robotics</i> , 2008, 25, 674-724. | 6.0 | 69 |
| 2 | A High-Performance Electronic Hardware-in-the-Loop Driveâ€™Load Simulation Using a Linear Inverter (LinVerter). <i>IEEE Transactions on Industrial Electronics</i> , 2010, 57, 1208-1216. | 7.9 | 56 |
| 3 | Small-Signal Modeling of Three-Phase Synchronous Reference Frame Phase-Locked Loops. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 5556-5560. | 7.9 | 42 |
| 4 | Online Estimation and Correction of Systematic Encoder Line Errors. <i>Machines</i> , 2017, 5, 1. | 2.2 | 41 |
| 5 | On contact models for assembly tasks: Experimental investigation beyond the peg-in-hole problem on the example of force-torque maps. , 2010, , . | | 27 |
| 6 | Passivation of Current-Controlled Grid-Connected VSCs Using Passivity Indices. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 8971-8980. | 7.9 | 26 |
| 7 | Design of Multifrequency Proportionalâ€™Resonant Current Controllers for Voltage-Source Converters. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 13573-13589. | 7.9 | 25 |
| 8 | Tracking control with hysteresis compensation for manipulator segments driven by pneumatic artificial muscles. , 2011, , . | | 16 |
| 9 | Distributed coalitions for reliable and stable provision of frequency response reserve. , 2013, , . | | 13 |
| 10 | Unbalance Compensation on AMB System without a Rotational Sensor. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 2003, 46, 423-428. | 0.3 | 8 |
| 11 | Maneuvering assistant for truck and trailer combinations with arbitrary trailer hitching. , 2013, , . | | 8 |
| 12 | Model-based controller design for antagonistic pairs of fluidic muscles in manipulator motion control. , 2012, , . | | 6 |
| 13 | On the joint design and hydraulic actuation of octahedron VGT robot manipulators. , 2011, , . | | 5 |
| 14 | Nonlinear reduced-order model of an AC microgrid. , 2015, , . | | 5 |
| 15 | Modeling power inverter interactions in a low voltage grid. , 2014, , . | | 4 |
| 16 | Stability analysis and design of the improved droop controller on a voltage source inverter. , 2015, , . | | 4 |
| 17 | Algebraic Operations on Delta-Sigma Bit-Streams. <i>Mathematical and Computational Applications</i> , 2018, 23, 49. | 1.3 | 4 |
| 18 | Redundant Parallel Kinematic Structures and Their Control. <i>Springer Tracts in Advanced Robotics</i> , 2010, , 143-157. | 0.4 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Enhancements of force-torque map based assembly applied to parallel robots. , 2010, , . | | 3 |
| 20 | A Modified ZOH Model for Representing the Small-Signal PWM Behavior in Digital DC-AC Converter Systems. , 2019, , . | | 3 |
| 21 | Redundancy resolution and control of manipulators driven by antagonistic pneumatic muscles. , 2012, , . | | 2 |
| 22 | Stability optimization for distributed generation of load-following energy. , 2014, , . | | 2 |
| 23 | Parameter identification of transverse flux machines using harmonic current control. , 2014, , . | | 2 |
| 24 | Modeling and small-signal stability analysis of decentralized energy sources implementing Q(U) reactive power control. , 2017, , . | | 2 |
| 25 | Comparison of Hysteresis Based PWM Schemes \hat{i}^*_{PWM} -PWM and Direct Torque Control. Applied Sciences (Switzerland), 2021, 11, 2293. | 2.5 | 2 |
| 26 | Anti-windup design for trajectory tracking of a parallel robot - An holistic approach. , 2010, , . | | 1 |
| 27 | On the Impact Force Reduction of a VGT-Robot-Structure with a Variable Compliant and Damped Hydropneumatic Actuator. Applied Mechanics and Materials, 0, 799-800, 1040-1044. | 0.2 | 1 |
| 28 | Modeling, Control, and Evaluation of an Experimental Adaptronic Five-Bar Robot. Springer Tracts in Advanced Robotics, 2010, , 125-142. | 0.4 | 1 |
| 29 | Design of the new modular tendon-driven manipulator TENDRIM. , 2009, , . | | 0 |