

Luca Muratore

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

752
citations

1163117

8
h-index

1058476

14
g-index

34
all docs

34
docs citations

34
times ranked

563
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | WALK-MAN: A High-Performance Humanoid Platform for Realistic Environments. Journal of Field Robotics, 2017, 34, 1225-1259. | 6.0 | 175 |
| 2 | CENTAURO: A Hybrid Locomotion and High Power Resilient Manipulation Platform. IEEE Robotics and Automation Letters, 2019, 4, 1595-1602. | 5.1 | 120 |
| 3 | XBotCore: A Real-Time Cross-Robot Software Platform. , 2017, , . | | 57 |
| 4 | Flexible Disaster Response of Tomorrow: Final Presentation and Evaluation of the CENTAURO System. IEEE Robotics and Automation Magazine, 2019, 26, 59-72. | 2.0 | 49 |
| 5 | Remote mobile manipulation with the centauro robot: Full-body telepresence and autonomous operator assistance. Journal of Field Robotics, 2020, 37, 889-919. | 6.0 | 48 |
| 6 | Development of a human size and strength compliant bi-manual platform for realistic heavy manipulation tasks. , 2017, , . | | 37 |
| 7 | Cartes/O: A ROS Based Real-Time Capable Cartesian Control Framework. , 2019, , . | | 37 |
| 8 | Translating Videos to Commands for Robotic Manipulation with Deep Recurrent Neural Networks. , 2018, , . | | 32 |
| 9 | Humanoids at Work: The WALK-MAN Robot in a Postearthquake Scenario. IEEE Robotics and Automation Magazine, 2018, 25, 8-22. | 2.0 | 26 |
| 10 | Multi-Priority Cartesian Impedance Control Based on Quadratic Programming Optimization. , 2018, , . | | 24 |
| 11 | The XBot Real-Time Software Framework for Robotics: From the Developer to the User Perspective. IEEE Robotics and Automation Magazine, 2020, 27, 133-143. | 2.0 | 23 |
| 12 | A Self-Tuning Impedance Controller for Autonomous Robotic Manipulation. , 2018, , . | | 18 |
| 13 | An affordance-based pilot interface for high-level control of humanoid robots in supervised autonomy. , 2016, , . | | 13 |
| 14 | Toward a Plug-and-Work Reconfigurable Cobot. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3219-3231. | 5.8 | 11 |
| 15 | Human inspired fall prediction method for humanoid robots. Robotics and Autonomous Systems, 2019, 121, 103257. | 5.1 | 9 |
| 16 | Towards a Robot Hardware Abstraction Layer (R-Hal) Leveraging the XBot Software Framework. , 2018, , . | | 8 |
| 17 | A Whole Body Attitude Stabilizer for Hybrid Wheeled-Legged Quadruped Robots. , 2018, , . | | 8 |
| 18 | The Walk-Man Robot Software Architecture. Frontiers in Robotics and AI, 2016, 3, . | 3.2 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | XBotCloud: A Scalable Cloud Computing Infrastructure for XBot Powered Robots. , 2018, , . | | 7 |
| 20 | Enhanced Tele-interaction in Unknown Environments Using Semi-Autonomous Motion and Impedance Regulation Principles. , 2018, , . | | 7 |
| 21 | TelePhysicalOperation: Remote Robot Control Based on a Virtual "Marionette"-Type Interaction Interface. IEEE Robotics and Automation Letters, 2022, 7, 2479-2486. | 5.1 | 6 |
| 22 | Reactive Walking Based on Upper-Body Manipulability: An application to Intention Detection and Reaction. , 2019, , . | | 5 |
| 23 | A Self-Modulated Impedance Multimodal Interaction Framework for Human-Robot Collaboration. , 2019, , . | | 5 |
| 24 | A mixed real-time robot hardware abstraction layer (R-HAL). Encyclopedia With Semantic Computing and Robotic Intelligence, 2018, 02, 1850010. | 0.2 | 4 |
| 25 | Whole-Body Stabilization for Visual-Based Box Lifting with the COMAN+ Robot. , 2019, , . | | 4 |
| 26 | WALK-MAN Humanoid Platform. Springer Tracts in Advanced Robotics, 2018, , 495-548. | 0.4 | 3 |
| 27 | A Build System for Software Development in Robotic Academic Collaborative Environments. International Journal of Semantic Computing, 2019, 13, 185-205. | 0.5 | 3 |
| 28 | Autonomous Obstacle Crossing Strategies for the Hybrid Wheeled-Legged Robot Centauro. Frontiers in Robotics and AI, 2021, 8, 721001. | 3.2 | 2 |
| 29 | Towards an Open-Source Hardware Agnostic Framework for Robotic End-Effectors Control. , 2021, , . | | 2 |
| 30 | Towards a Generic Grasp Planning Pipeline using End-Effector Specific Primitive Grasping Actions. , 2021, , . | | 2 |
| 31 | A Build System for Software Development in Robotic Academic Collaborative Environments. , 2018, , . | | 0 |
| 32 | XBot: A Cross-Robot Software Framework for Real-Time Control. , 0, , . | | 0 |
| 33 | A mixed real-time robot hardware abstraction layer (R-HAL). World Scientific Encyclopedia With Semantic Computing and Robotic Intelligence, 2019, , 153-159. | 0.0 | 0 |