

# Giuseppe Orlando

## List of Publications by Year in descending order

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55  
papers

1,575  
citations

394286

19  
h-index

377752

34  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1159  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Boost converter load estimation by a sliding mode approach. International Journal of Circuit Theory and Applications, 2022, 50, 1806-1816.  | 1.3 | 1         |
| 2  | An Embedded Strategy for Online Identification of PMSM Parameters and Sensorless Control. IEEE Transactions on Control Systems Technology, 2019, 27, 2444-2452.   | 3.2 | 18        |
| 3  | A Sliding Mode Observer-Based Icing Detection and Estimation Scheme for Wind Turbines. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .                                | 0.9 | 3         |
| 4  | A unified observer for robust sensorless control of DC-DC converters. Control Engineering Practice, 2017, 61, 21-27.  | 3.2 | 29        |
| 5  | A model predictive control for a multi-axis piezo system: Development and experimental validation. , 2017, , .  |     | 5         |
| 6  | A sliding mode pitch controller for wind turbines operating in high wind speeds region. , 2017, , .   |     | 2         |
| 7  | Development and experimental validation of a LQG control for a pre-compensated multi-axis piezosystem. , 2017, , .  |     | 5         |
| 8  | Robust control of piezostage for nanoscale three-dimensional images acquisition. , 2016, , .  |     | 3         |
| 9  | Variable Structure Sensorless Control of PMSM Drives. Studies in Computational Intelligence, 2016, , 505-530.   | 0.7 | 2         |
| 10 | On the design of observers robust to load variations for synchronous converters. , 2015, , .  |     | 2         |
| 11 | Robust Control of Robot Arms via Quasi Sliding Modes and Neural Networks. Studies in Computational Intelligence, 2015, , 79-105.  | 0.7 | 9         |
| 12 | Sensorless efficient fault-tolerant control of wind turbines with geared generator. Automatica, 2015, 62, 161-167.  | 3.0 | 12        |
| 13 | Synchronous buck converter control via robust periodic pole assignment. , 2014, , .   |     | 5         |
| 14 | Time-domain analysis of scrotal thermoregulatory impairment in varicocele. Frontiers in Physiology, 2014, 5, 342.   | 1.3 | 6         |
| 15 | A Robust Observer-Based Fault Tolerant Control Scheme for Underwater Vehicles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .  | 0.9 | 9         |
| 16 | A Discrete-Time Controller based on RBF Neural Networks for PMSM Drives. Asian Journal of Control, 2014, 16, 396-408.   | 1.9 | 16        |
| 17 | Robust current observer design for DC-DC converters. , 2014, , .  |     | 6         |
| 18 | A Rapid Prototyping Scenario for Power Factor Control in Permanent Magnet Synchronous Motor Drives: Control Solutions for Interleaved Boost Converters. Electric Power Components and Systems, 2014, 42, 639-649. | 1.0 | 7         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Sliding-mode control of discrete-time linear plants with input saturation: application to a twin-rotor system. <i>International Journal of Control</i> , 2014, 87, 1523-1535. | 1.2 | 12        |
| 20 | Sensorless power factor control for mixed conduction mode boost converter using passivity-based control. <i>IET Power Electronics</i> , 2014, 7, 2988-2995.                   | 1.5 | 20        |
| 21 | Nanoscale imaging by micro-cavity scanning microscopy. , 2014, , .  |     | 0         |
| 22 | Robust Control of Variable-Speed Wind Turbines Based on an Aerodynamic Torque Observer. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 1199-1206.         | 3.2 | 69        |
| 23 | Current sensorless solution for PFC boost converter operating both in DCM and CCM. , 2013, , .  |     | 10        |
| 24 | Fully sensorless robust control of variable-speed wind turbines for efficiency maximization. <i>Automatica</i> , 2013, 49, 3023-3031.   | 3.0 | 38        |
| 25 | Explicit sensorless model predictive control of synchronous buck converter. , 2013, , .   |     | 8         |
| 26 | Sensorless passivity-based control for Mixed Conduction Mode boost converter with power factor correction. , 2013, , .  |     | 2         |
| 27 | PMSM control with power factor correction: Rapid prototyping scenario. , 2013, , .  |     | 8         |
| 28 | Current sensorless solutions for PFC of boost converters with passivity-based and sliding mode control. , 2013, , .   |     | 9         |
| 29 | Model predictive control solution for Permanent Magnet Synchronous Motors. , 2013, , .  |     | 11        |
| 30 | A passivity-based solution for CCM-DCM boost converter Power Factor Control. , 2013, , .  |     | 6         |
| 31 | Passivity-Based PFC for Interleaved Boost Converter of PMSM drives. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 128-133.   | 0.4 | 11        |
| 32 | Robust sensorless speed control of permanent magnet synchronous motors: A C2000 based implementation. , 2012, , .   |     | 2         |
| 33 | Discrete time sliding mode control of robotic manipulators: Development and experimental validation. <i>Control Engineering Practice</i> , 2012, 20, 816-822.                 | 3.2 | 95        |
| 34 | A Quasi-Sliding Mode Approach for Robust Control and Speed Estimation of PM Synchronous Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2012, 59, 1096-1104.     | 5.2 | 145       |
| 35 | Minimal Resource Allocating Networks for Discrete Time Sliding Mode Control of Robotic Manipulators. <i>IEEE Transactions on Industrial Informatics</i> , 2012, 8, 733-745.   | 7.2 | 54        |
| 36 | Control Systems with Saturating Inputs. <i>Lecture Notes in Control and Information Sciences</i> , 2012, , .  | 0.6 | 12        |

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|----|--|-----|-----------|
| 37 | Discrete time sliding mode control of robotic manipulators: Development and experimental validation. , 2011, , .   |     | 1         |
| 38 | An Actuator Failure Tolerant Control Scheme for an Underwater Remotely Operated Vehicle. IEEE Transactions on Control Systems Technology, 2011, 19, 1036-1046.                                       | 3.2 | 84        |
| 39 | Scrotal Thermoregulatory Model and Assessment of the Impairment of Scrotal Temperature Control in Varicocele. Annals of Biomedical Engineering, 2011, 39, 664-673.                                   | 1.3 | 19        |
| 40 | Discrete time variable structure control of robotic manipulators based on fully tuned rbf neural networks. , 2010, , .   |     | 3         |
| 41 | Robust Stabilization of Multi Input Plants With Saturating Actuators. IEEE Transactions on Automatic Control, 2010, 55, 419-425.   | 3.6 | 29        |
| 42 | Discussion on: "Robust Stability Analysis and Tuning of a Predictive Sliding Mode Controller" European Journal of Control, 2010, 16, 289-290.  | 1.6 | 0         |
| 43 | Finger Thermoregulatory Model Assessing Functional Impairment in Raynaud's Phenomenon. Annals of Biomedical Engineering, 2009, 37, 2631-2639.  | 1.3 | 21        |
| 44 | Robust quantized feedback stabilization of linear systems. Automatica, 2008, 44, 2458-2462.  | 3.0 | 77        |
| 45 | Actuator Failure Identification and Compensation Through Sliding Modes. IEEE Transactions on Control Systems Technology, 2007, 15, 184-190.  | 3.2 | 122       |
| 46 | Linear unstable plants with saturating actuators: Robust stabilization by a time varying sliding surface. Automatica, 2007, 43, 88-94.   | 3.0 | 70        |
| 47 | A Supervised Switching Technique for the Robust Stabilization of a Class of Linear Discrete-Time Time-Varying Systems. , 2006, , .   |     | 0         |
| 48 | Robust stabilization of nonlinear uncertain plants with backlash or dead zone in the actuator. IEEE Transactions on Control Systems Technology, 2002, 10, 158-166.                                   | 3.2 | 116       |
| 49 | Control of mobile robots with uncertainties in the dynamical model: a discrete time sliding mode approach with experimental results. Control Engineering Practice, 2002, 10, 23-34.                  | 3.2 | 58        |
| 50 | Experimental testing of a discrete-time sliding mode controller for trajectory tracking of a wheeled mobile robot in the presence of skidding effects. Journal of Field Robotics, 2002, 19, 177-188. | 0.7 | 76        |
| 51 | Transient Improvement of Variable Structure Controlled Systems Via Multi-Model Switching Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2002, 124, 321-326. | 0.9 | 18        |
| 52 | Robust tracking control of mobile robots in the presence of uncertainties in the dynamical model. Journal of Field Robotics, 2001, 18, 317-323.  | 0.7 | 54        |
| 53 | Variable structure control of discretized continuous-time systems. IEEE Transactions on Automatic Control, 1998, 43, 1329-1334.  | 3.6 | 67        |
| 54 | A discrete adaptive variable-structure controller for MIMO systems, and its application to an underwater ROV. IEEE Transactions on Control Systems Technology, 1997, 5, 349-359.                     | 3.2 | 103       |

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|----|---|-----|-----------|
| 55 | A MIMO variable structure model of the controller of voluntary arm movements: an identification study. Automatica, 1995, 31, 1673-1679. | 3.0 | 2         |