

# Aurelio Tergolina Salton

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

211  
citations

1307594

7  
h-index

1125743

13  
g-index

50  
all docs

50  
docs citations

50  
times ranked

164  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Precision Tracking of Periodic Signals: A Macro-Micro Approach With Quantized Feedback. IEEE Transactions on Industrial Electronics, 2022, 69, 8325-8334.	7.9	3
2	Robust practical output regulation of rational nonlinear systems via numerical approximations to the regulator equations. International Journal of Robust and Nonlinear Control, 2022, 32, 1229-1255.	3.7	1
3	High Precision Over Long Range: A Macro-Micro Approach to Quantized Positioning Systems. IEEE Transactions on Control Systems Technology, 2021, 29, 2406-2415.	5.2	6
4	Controller and anti-windup co-design for the output regulation of rational systems subject to control saturation. International Journal of Robust and Nonlinear Control, 2021, 31, 1395-1417.	3.7	5
5	Parametric and Nonparametric Bayesian Filters for Autonomous Underwater Vehicle Localization. Journal of Control, Automation and Electrical Systems, 2020, 31, 40-51.	2.0	0
6	A Stabilization Framework for the Output Regulation of Rational Nonlinear Systems. IEEE Transactions on Automatic Control, 2020, 65, 4860-4865.	5.7	7
7	Network Topology Impact on the Identification of Dynamic Network Models with Application to Autonomous Vehicle Platooning. IFAC-PapersOnLine, 2020, 53, 1031-1036.	0.9	1
8	A convex optimization based solution for the robotic manipulator control design problem subject to input saturation. IFAC-PapersOnLine, 2020, 53, 5467-5472.	0.9	0
9	Dual-Stage Control Structure for Multilevel Voltage Source Inverters. IFAC-PapersOnLine, 2020, 53, 13495-13500.	0.9	0
10	Affine discretization methods for the digital resonant control of uninterruptible power supplies. Journal of the Franklin Institute, 2019, 356, 8646-8664.	3.4	3
11	Outdoor Localization System with Augmented State Extended Kalman Filter and Radio-Frequency Received Signal Strength. , 2019, , .		2
12	Reducing Quantization Effects in Motion Control via Dual-Stage Actuators and Induced Oscillations. , 2019, , .		1
13	Autonomic Computing Towards Resource Management in Embedded Mobile Robots. , 2019, , .		0
14	Robust Discrete-Time Spatial Repetitive Controller. IEEE Transactions on Control Systems Technology, 2019, 27, 2696-2702.	5.2	2
15	Iterative Learning Control for Spiral Scanning Patterns in Atomic Force Microscopy. Lecture Notes in Computer Science, 2018, , 389-399.	1.3	2
16	Resonant Gain Scheduling Controller for Spiral Scanning Patterns in Atomic Force Microscopy. Lecture Notes in Computer Science, 2018, , 255-267.	1.3	0
17	Discrete-time multiple resonant controller design for uninterruptible power supplies. IFAC-PapersOnLine, 2017, 50, 6717-6722.	0.9	2
18	Variable frequency resonant controller for load reduction in wind turbines. Control Engineering Practice, 2017, 66, 76-88.	5.5	9

#	ARTICLE	IF	CITATIONS
19	Saturation-aware control design for micro-nano positioning systems. IET Control Theory and Applications, 2017, 11, 2559-2566.	2.1	5
20	Stability Analysis of Output Regulated Rational Nonlinear Systems * *This work was partially supported by CAPES and CNPq, Brazil, under grants 43979/2014-6, 305886/2015-0 (J.V. Flores) and 309272/2015-7 (A.T. Salton). IFAC-PapersOnLine, 2017, 50, 8214-8219.	0.9	2
21	Semidefinite Programming Solution to the Spacecraft Analysis and Control Problem. IFAC-PapersOnLine, 2017, 50, 3959-3964.	0.9	1
22	Robust State Feedback Formulation for High Order Repetitive Controllers. Asian Journal of Control, 2016, 18, 1042-1051.	3.0	5
23	A discrete-time framework for proximate time-optimal performance of damped servomechanisms. Mechatronics, 2016, 36, 27-35.	3.3	7
24	Disturbance observer and nonlinear damping control for fast tracking quadrotor vehicles. , 2016, , .		3
25	Quaternion-based dynamic control of a 6-DOF Stewart platform for periodic disturbance rejection. , 2016, , .		3
26	Modified MIMO Resonant Controller robust to period variation and parametric uncertainty. , 2016, , .		0
27	Constrained Optimal Preview Control of Dual-Stage Actuators. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1179-1184.	5.8	21
28	Repetitive controller with low-pass filter compensation applied to Uninterruptible Power Supplies (UPS). , 2015, , .		2
29	Antiwindup Design for Zero-Phase Repetitive Controllers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	2
30	Trajectory Generation for Bathymetry based AUV Navigation and Localization. IFAC-PapersOnLine, 2015, 48, 95-100.	0.9	5
31	A Framework for the Nonlinear Control of Dual-Stage Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1140-1145.	0.4	1
32	A Comparative Analysis of Repetitive and Resonant Controllers to a Servo-Vision Ball and Plate System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1120-1125.	0.4	9
33	Two-dimensional proximate time-optimal servomechanism. Australian Journal of Electrical and Electronics Engineering, 2014, 11, .	1.2	0
34	Internal model control of the Zeta Converter for the grid connection of photovoltaic panels. , 2013, , .		0
35	Proximate time optimal control of an XY positioning table. , 2013, , .		0
36	A Resonant-Repetitive Control Scheme Applied to Uninterruptible Power Supplies (UPS). Journal of Control, Automation and Electrical Systems, 2013, 24, 253-262.	2.0	6

#	ARTICLE	IF	CITATIONS
37	A complementary approach to resonant-repetitive controllers for the control of uninterruptible power supplies (UPS). , 2013, , .		4
38	Acceleration enhancement factor for damped systems subject to the discrete Proximate Time-Optimal Servomechanism. , 2013, , .		2
39	Optimal trajectories for the Preview Control of Dual-Stage Actuators. , 2013, , .		1
40	Improved Control Design Methods for Proximate Time-Optimal Servomechanisms. IEEE/ASME Transactions on Mechatronics, 2012, 17, 1049-1058.	5.8	28
41	Recent Advances on the Design and Control of Macro/Micro Actuators. Recent Patents on Mechanical Engineering, 2012, 6, 1-10.	0.3	0
42	Improved servomechanism control design - Dynamically damped case. , 2011, , .		1
43	Improved Servomechanism Control Design â€“ Nonswitching Case. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8614-8619.	0.4	1
44	Design and control of a rotary dual-stage actuator positioning system. Mechatronics, 2011, 21, 1003-1012.	3.3	36
45	Preview Control of Dual-Stage Actuator Systems for Superfast Transition Time. IEEE/ASME Transactions on Mechatronics, 2011, 16, 758-763.	5.8	18
46	Continuous Preview Control of Dual-Stage Actuator systems for reduced transition time. , 2010, , .		0
47	A novel rotary dual-stage actuator positioner. , 2009, , .		3
48	A class of preview control for dual-stage actuator systems. , 2009, , .		1
49	A robust discrete-time observer for induction motors. , 2007, , .		0
50	Static output feedback control for the rotation of a 2-DOF differential-algebraic quaternion camera. , 0, , .		0