

Antonio Lora

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

140
papers

3,679
citations

27
h-index

58
g-index

158
ext. papers

4,566
ext. citations

3.3
avg, IF

5.64
L-index

#	Paper	IF	Citations
140	Passivity-based Control of Euler-Lagrange Systems. <i>Communications and Control Engineering</i> , 1998 ,	0.6	813
139	On global uniform asymptotic stability of nonlinear time-varying systems in cascade. <i>Systems and Control Letters</i> , 1998 , 33, 131-138	2.4	174
138	A separation principle for dynamic positioning of ships: theoretical and experimental results. <i>IEEE Transactions on Control Systems Technology</i> , 2000 , 8, 332-343	4.8	134
137	Uniform exponential stability of linear time-varying systems: revisited. <i>Systems and Control Letters</i> , 2002 , 47, 13-24	2.4	129
136	Growth rate conditions for uniform asymptotic stability of cascaded time-varying systems. <i>Automatica</i> , 2001 , 37, 453-460	5.7	126
135	. <i>IEEE Transactions on Automatic Control</i> , 1995 , 40, 1432-1436	5.9	126
134	. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 183-198	5.9	116
133	Relaxed persistency of excitation for uniform asymptotic stability. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 1874-1886	5.9	114
132	. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 727-732	4.8	105
131	. <i>IEEE Transactions on Automatic Control</i> , 1994 , 39, 1222-1224	5.9	94
130	On global output feedback regulation of Euler-Lagrange systems with bounded inputs. <i>IEEE Transactions on Automatic Control</i> , 1997 , 42, 1138-1143	5.9	91
129	On passivity-based output feedback global stabilization of euler-lagrange systems. <i>International Journal of Robust and Nonlinear Control</i> , 1995 , 5, 313-323	3.6	77
128	Bounded output feedback tracking control of fully actuated Euler-Lagrange systems. <i>Systems and Control Letters</i> , 1998 , 33, 151-161	2.4	75
127	Spacecraft relative rotation tracking without angular velocity measurements. <i>Automatica</i> , 2009 , 45, 750-756	5.6	67
126	. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3758-3773	5.9	64
125	Integral Characterizations of Uniform Asymptotic and Exponential Stability with Applications. <i>Mathematics of Control, Signals, and Systems</i> , 2002 , 15, 177-201	1.3	58
124	Uniform semiglobal practical asymptotic stability for non-autonomous cascaded systems and applications. <i>Automatica</i> , 2008 , 44, 337-347	5.7	56

123	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2011 , 58, 800-812	3.9	48
122	Adaptive Observers With Persistency of Excitation for Synchronization of Chaotic Systems. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2009 , 56, 2703-2716	3.9	48
121	. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 905-920	5.9	47
120	Adaptive Tracking Control of Chaotic Systems With Applications to Synchronization. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2007 , 54, 2019-2029		45
119	2 Cascaded Nonlinear Time-Varying Systems: Analysis and Design. <i>Lecture Notes in Control and Information Sciences</i> , 2005 , 23-64	0.5	45
118	Exponential Tracking Control of a Mobile Car Using a Cascaded Approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998 , 31, 201-206		42
117	Design and experimental validation of a nonlinear wheel slip control algorithm. <i>Automatica</i> , 2012 , 48, 1852-1859	5.7	35
116	On the stability and stabilization of quaternion equilibria of rigid bodies. <i>Automatica</i> , 2012 , 48, 3135-3144	4.7	33
115	Euler-Lagrange systems. <i>Communications and Control Engineering</i> , 1998 , 15-37	0.6	32
114	. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 875-887	5.9	31
113	A theorem for UGAS and ULES of (passive) nonautonomous systems: robust control of mechanical systems and ships. <i>International Journal of Robust and Nonlinear Control</i> , 2001 , 11, 95-108	3.6	27
112	Hybrid attitude tracking of rigid bodies without angular velocity measurement. <i>Systems and Control Letters</i> , 2012 , 61, 595-601	2.4	26
111	Position feedback global tracking control of EL systems: a state transformation approach. <i>IEEE Transactions on Automatic Control</i> , 2002 , 47, 841-847	5.9	24
110	. <i>IEEE Transactions on Automation Science and Engineering</i> , 1995 , 11, 766-770		24
109	Master-Slave Synchronization of Fourth-Order L ¹ Chaotic Oscillators via Linear Output Feedback. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2010 , 57, 213-217	3.5	22
108	A remark on passivity-based and discontinuous control of uncertain nonlinear systems. <i>Automatica</i> , 2001 , 37, 1481-1487	5.7	22
107	UGAS of Skew-symmetric Time-varying Systems: Application to Stabilization of Chained Form Systems. <i>European Journal of Control</i> , 2002 , 8, 33-43	2.5	22
106	Distributed consensus-formation of force-controlled nonholonomic robots with time-varying delays. <i>Automatica</i> , 2020 , 120, 109114	5.7	21

105	Formation-Tracking Control of Autonomous Vehicles Under Relaxed Persistency of Excitation Conditions. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1860-1865	4.8	20
104	Necessary and sufficient conditions for uniform semiglobal practical asymptotic stability: Application to cascaded systems. <i>Automatica</i> , 2006 , 42, 1899-1906	5.7	20
103	Strict Lyapunov functions for time-varying systems with persistency of excitation. <i>Automatica</i> , 2017 , 78, 274-279	5.7	19
102	Uniform stabilization for linear systems with persistency of excitation: the neutrally stable and the double integrator cases. <i>Mathematics of Control, Signals, and Systems</i> , 2008 , 20, 135-156	1.3	19
101	Uniform Parametric Convergence in the Adaptive Control of Mechanical Systems. <i>European Journal of Control</i> , 2005 , 11, 87-100	2.5	19
100	Consensus of Multi-Agent Systems With Nonholonomic Restrictions via Lyapunov's Direct Method 2019 , 3, 344-349		18
99	PD+ Based Output Feedback Attitude Control of Rigid Bodies. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 2146-2152	5.9	17
98	On uniform boundedness of parameterized discrete-time systems with decaying inputs: applications to cascades. <i>Systems and Control Letters</i> , 2003 , 49, 163-174	2.4	17
97	Force/motion control of constrained manipulators without velocity measurements. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 1407-1412	5.9	17
96	Robust formation tracking control of mobile robots via one-to-one time-varying communication. <i>International Journal of Control</i> , 2014 , 87, 1822-1832	1.5	16
95	From feedback to cascade-interconnected systems: Breaking the loop 2008 ,		16
94	Control of a planar underactuated biped on a complete walking cycle. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 838-843	5.9	15
93	Lyapunov Functions for Persistently-Excited Cascaded Time-Varying Systems: Application to Consensus. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3416-3422	5.9	14
92	Robust output stabilization: Improving performance via supervisory control. <i>International Journal of Robust and Nonlinear Control</i> , 2011 , 21, 1219-1236	3.6	14
91	. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2009 , 56, 674-678	3.5	14
90	Uniform Global Practical Asymptotic Stability for Time-varying Cascaded Systems*. <i>European Journal of Control</i> , 2006 , 12, 595-605	2.5	14
89	Continuously-implemented sliding-mode adaptive unknown-input observers under noisy measurements. <i>Systems and Control Letters</i> , 2012 , 61, 1194-1202	2.4	13
88	A robust ϵ -persistently exciting controller for leader-follower tracking-agreement of multiple vehicles. <i>European Journal of Control</i> , 2018 , 40, 1-12	2.5	12

87	Trajectory Tracking for Underwater Swimming Manipulators using a Super Twisting Algorithm. <i>Asian Journal of Control</i> , 2019 , 21, 208-223	1.7	12
86	On persistently exciting observers and a non-linear separation principle: Application to the stabilization of a generator. <i>International Journal of Control</i> , 2003 , 76, 607-617	1.5	12
85	A new notion of persistency-of-excitation for UGAS of NLTV systems: Application to stabilisation of nonholonomic systems 1999 ,		12
84	A separation principle for a class of euler-lagrange systems 1999 , 229-247		12
83	Global Uniform Asymptotic Stability of Cascaded Non-autonomous Non-linear Systems: Application to Stabilisation of a Diesel Engine. <i>European Journal of Control</i> , 1999 , 5, 107-115	2.5	12
82	On output feedback stabilization of Euler-Lagrange systems with nondissipative forces. <i>Systems and Control Letters</i> , 1996 , 27, 315-324	2.4	12
81	Adaptive tracking control of Euler-Lagrange systems with bounded controls. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 299-313	2.8	11
80	Control of the new 4th-order hyper-chaotic system with one input. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 1621-1630	3.7	11
79	Global position-feedback tracking control of flexible-joint robots 2016 ,		11
78	On the estimation of the consensus rate of convergence in graphs with persistent interconnections. <i>International Journal of Control</i> , 2018 , 91, 132-144	1.5	10
77	6 Stability, Told by Its Developers 199-258		10
76	Smooth time-varying stabilization of driftless systems over communication channels. <i>Systems and Control Letters</i> , 2006 , 55, 982-991	2.4	10
75	Force/position regulation for robot manipulators with unmeasurable velocities and uncertain gravity. <i>Automatica</i> , 1996 , 32, 939-943	5.7	10
74	Lyapunov-based formation-tracking control of nonholonomic systems under persistency of excitation. <i>IFAC-PapersOnLine</i> , 2016 , 49, 404-409	0.7	10
73	. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 2662-2669	5.9	9
72	2014 ,		9
71	. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 3693-3699	5.9	8
70	PD+ attitude control of rigid bodies with improved performance 2010 ,		8

69	Robustness of PID-controlled Manipulators vis-à-vis Actuator Dynamics and External Disturbances. <i>European Journal of Control</i> , 2007 , 13, 563-576	2.5	8
68	Strict Lyapunov Functions for Model Reference Adaptive Control: Application to Lagrangian Systems. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 3040-3045	5.9	8
67	Global adaptive linear control of the permanent-magnet synchronous motor. <i>International Journal of Adaptive Control and Signal Processing</i> , 2014 , 28, 971-986	2.8	7
66	Cascades-Based Leader-Follower Formation Tracking and Stabilization of Multiple Nonholonomic Vehicles. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 3639-3646	5.9	7
65	A new mixed wheel slip and acceleration control based on a cascaded design. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 879-884		6
64	2006,		6
63	Consensus-Based Formation Control of Networked Nonholonomic Vehicles With Delayed Communications. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 2242-2249	5.9	6
62	. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5318-5323	5.9	5
61	On the Stability and Robustness of Stuart-Landau Oscillators**This article is supported by Government of Russian Federation (grant 074-U01). <i>IFAC-PapersOnLine</i> , 2015 , 48, 645-650	0.7	5
60	Velocity-sensorless tracking control and identification of switched-reluctance motors. <i>Automatica</i> , 2014 , 50, 3123-3130	5.7	5
59	Practical dynamic consensus of Stuart-Landau oscillators over heterogeneous networks. <i>International Journal of Control</i> , 2020 , 93, 261-273	1.5	5
58	Exponential Stabilization of Switched-Reluctance Motors Via Speed-Sensorless Feedback. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1224-1232	4.8	4
57	On practical synchronisation and collective behaviour of networked heterogeneous oscillators**This article is supported by Government of Russian Federation (grant 074-U01).. <i>IFAC-PapersOnLine</i> , 2015 , 48, 25-30	0.7	4
56	Angular velocity estimation from incremental encoder measurements in the presence of sensor imperfections * *The work of the first author is supported by CONACYT and SEP, Mexico. <i>IFAC-PapersOnLine</i> , 2017 , 50, 5979-5984	0.7	4
55	Consensus-based Formation Control of Nonholonomic Robots using a Strict Lyapunov Function. <i>IFAC-PapersOnLine</i> , 2017 , 50, 2439-2444	0.7	4
54	Decentralized formation-tracking control of autonomous vehicles on straight paths 2014,		4
53	Robustness of PID-controlled manipulators with respect to external disturbances 2006,		4
52	2016,		4

51	A unique robust controller for tracking and stabilisation of non-holonomic vehicles. <i>International Journal of Control</i> , 2020 , 93, 2302-2313	1.5	4
50	Distributed Full-Consensus Control of Nonholonomic Vehicles Under Non-Differentiable Measurement Delays 2021 , 5, 97-102		4
49	An adaptive observer for a class of nonlinear systems with a high-gain approach. Application to the twin-rotor system. <i>International Journal of Control</i> , 2021 , 94, 370-381	1.5	4
48	Leaderless Consensus Formation Control of Cooperative Multi-Agent Vehicles Without Velocity Measurements 2022 , 6, 902-907		4
47	Robust passivity-based control of switched-reluctance motors. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 3384-3403	3.6	3
46	Analysis and control of Andronov-Hopf oscillators with applications to neuronal populations 2015 ,		3
45	On practical synchronization of heterogeneous networks of nonlinear systems: application to chaotic systems 2015 ,		3
44	Closed-loop identification and tracking control of Lagrangian systems under input constraints 2015 ,		3
43	A robust adaptive observer for nonlinear systems with unknown inputs and disturbances 2010 ,		3
42	2009 ,		3
41	A switched adaptive observer for extended braking stiffness estimation 2018 ,		3
40	Edge-based strict Lyapunov functions for consensus with connectivity preservation over directed graphs. <i>Automatica</i> , 2021 , 132, 109812	5.7	3
39	Preliminary results on output tracking control for restricted-feedback linearizable systems with input delay 2013 ,		2
38	Global tracking-stabilization control of mobile robots with parametric uncertainty. <i>IFAC-PapersOnLine</i> , 2017 , 50, 4114-4119	0.7	2
37	Adaptive state estimation for a class of uncertain nonlinear systems with output time-delays 2012 ,		2
36	Speed-sensorless control of switched-reluctance motors with uncertain payload 2013 ,		2
35	Hybrid attitude tracking of output feedback controlled rigid bodies 2011 ,		2
34	SWITCHED MUTUAL MASTER-SLAVE SYNCHRONISATION: APPLICATION TO MECHANICAL SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 11508-11513		2

33	Synchronisation and Emergent Behaviour in Networks of Heterogeneous Systems: A Control Theory Perspective. <i>Lecture Notes in Control and Information Sciences</i> , 2017 , 81-102	0.5	2
32	Lyapunov-based synchronization of networked systems: From continuous-time to hybrid dynamics. <i>Annual Reviews in Control</i> , 2020 , 50, 335-342	10.3	2
31	A strict Lyapunov function for non-holonomic systems under persistently-exciting controllers. <i>IFAC-PapersOnLine</i> , 2016 , 49, 217-222	0.7	2
30	Decentralized synchronization of time-varying oscillators under time-varying bidirectional graphs 2019 ,		2
29	Acceleration Estimation Using Imperfect Incremental Encoders in Automotive Applications. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1058-1065	4.8	2
28	On Consensus of Double Integrators Over Directed Graphs and with Relative Measurement Bias 2018 ,		2
27	Stability, as told by its developers * *See also LorĀ and Panteley (2006). This work was supported by CNRS under grant BFC 248824.. <i>IFAC-PapersOnLine</i> , 2017 , 50, 5219-5230	0.7	1
26	Adaptive state estimation for a class of nonlinear systems: a high gain approach 2019 ,		1
25	Leader-follower simultaneous tracking-agreement formation control of nonholonomic vehicles 2018 ,		1
24	Lyapunov stability analysis of a twisting based control algorithm for systems with unmatched perturbations 2011 ,		1
23	Cascade-Based Controlled Attitude Synchronization and Tracking of Spacecraft in Leader-Follower Formation. <i>International Journal of Aerospace Engineering</i> , 2011 , 2011, 1-12	0.9	1
22	. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1893-1895	5.9	1
21	Towards uniform linear time-invariant stabilization of systems with persistency of excitation 2007 ,		1
20	Explicit Convergence Rates for Linear and Nonlinear MRAC-Type Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 333-338		1
19	Strict Lyapunov functions for dynamic consensus in linear systems interconnected over directed graphs 2022 , 1-1		1
18	Robust Consensus and Connectivity-maintenance under Edge-agreement-based Protocols for Directed Spanning Tree Graphs. <i>IFAC-PapersOnLine</i> , 2020 , 53, 2988-2993	0.7	1
17	Stability and robustness of edge-agreement-based consensus protocols for undirected proximity graphs. <i>International Journal of Control</i> , 2020 , 1-9	1.5	1
16	Effects of network topology on the synchronized behaviour of coupled nonlinear oscillators: a case study**This article is supported by Government of Russian Federation (grant 074-U01).. <i>IFAC-PapersOnLine</i> , 2016 , 49, 90-92	0.7	1

15	Leaderless Consensus-based Formation Control of Multiple Nonholonomic Mobile Robots with Interconnecting Delays 2019 ,		1
14	Extended-Braking-Stiffness Estimation Under Varying Road-Adherence Conditions. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1964-1971	4.8	1
13	Leader-Follower Consensus of Unicycles With Communication Range Constraints via Smooth Time-Invariant Feedback 2021 , 5, 737-742		1
12	Consensus under switching spanning-tree topologies and persistently exciting interconnections 2018 ,		1
11	Ellipsoidal Output-Feedback Sets for H _∞ Control of a Class of Stochastic Hybrid Systems with State-Dependent Noise3-21		1
10	Consensus-based Formation Control of Multiple Nonholonomic Vehicles under Input Constraints 2022 , 1-1		1
9	A hybrid controller for ABS based on extended-braking-stiffness estimation. <i>IFAC-PapersOnLine</i> , 2019 , 52, 452-457	0.7	0
8	. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	0
7	An Adaptive Sliding-mode Observer for Nonlinear Systems with Unknown Inputs and Noisy measurements. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 1837-1842		
6	NECESSARY AND SUFFICIENT CONDITIONS FOR STABILITY OF MRAC SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 86-91		
5	. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 964-966	5.9	
4	OUTPUT FEEDBACK CONTROL VIA ADAPTIVE OBSERVERS WITH PERSISTENCY OF EXCITATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 1067-1072		
3	Rendezvous of Nonholonomic Robots via Output-Feedback Control Under Time-Varying Delays. <i>IEEE Transactions on Control Systems Technology</i> , 2022 , 1-10	4.8	
2	Iterative Nonlinear Model Predictive Control187-210		
1	On the compensation of incremental encoder imperfections for motion control: a DC motor case-study. <i>IFAC-PapersOnLine</i> , 2018 , 51, 627-632	0.7	