Salvatore Monaco

List of Publications by Year in Descending Order

111 papers	1,659 citations	20 h-index	37 g-index
119 ext. papers	1,995 ext. citations	2.8 avg, IF	4.62 L-index

#	Paper	IF	Citations
111	Cluster partitioning of heterogeneous multi-agent systems. *Automatica*, **2022**, 138, 110136	5.7	2
110	Approximate Transverse Feedback Linearization Under Digital Control **2022**, 6, 13-18		
109	Nonlinear Hamiltonian systems under sampling. *IEEE Transactions on Automatic Control*, **2022**, 1-1	5.9	2
108	Quaternion-based attitude stabilization via discrete-time IDA-PBC **2022**, 1-1		0
107	Digital path-following for a car-like robot. *IFAC-PapersOnLine*, **2021**, 54, 174-179	0.7	0
106	Stabilization of Discrete Port-Hamiltonian Dynamics via Interconnection and Damping Assignment **2021**, 5, 103-108		6
105	Topology-induced containment for general linear systems on weakly connected digraphs. *Automatica*, **2021**, 131, 109734	5.7	4
104	IDA-PBC for LTI Dynamics Under Input Delays: A Reduction Approach **2021**, 5, 1465-1470		1
103	Sampled-data tracking under model predictive control and multi-rate planning. *IFAC-PapersOnLine*, **2020**, 53, 3620-3625	0.7	2
102	Reduction-based stabilization of nonlinear discrete-time systems through delayed state measurements. *IFAC-PapersOnLine*, **2020**, 53, 5851-5856	0.7	0
101	On partially minimum-phase systems and disturbance decoupling with stability. *Nonlinear Dynamics*, **2019**, 97, 583-598	5	0
100	Forwarding stabilization in discrete time. *Automatica*, **2019**, 109, 108532	5.7	5
99	Feedforwarding Under Sampling. *IEEE Transactions on Automatic Control*, **2019**, 64, 4668-4675	5.9	10
98	Lyapunov-Based Design of a Distributed Wardrop Load-Balancing Algorithm With Application to Software-Defined Networking. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 1924-1936	4.8	9
97	On the Zero-Dynamics of a Class of Hybrid LTI Systems: A Geometric Approach **2019**, 3, 703-708		2
96	Nonlinear Sampled-Data Stabilization with Delays. *Advances in Delays and Dynamics*, **2019**, 299-315	0.3	
95	On multi-consensus and almost equitable graph partitions. *Automatica*, **2019**, 103, 53-61	5.7	17

94	Discrete port-controlled Hamiltonian dynamics and average passivation **2019**,		5
93	On unconstrained MPC through multirate sampling. *IFAC-PapersOnLine*, **2019**, 52, 388-393	0.7	2
92	Gradient and Hamiltonian dynamics under sampling. *IFAC-PapersOnLine*, **2019**, 52, 472-477	0.7	3
91	Nonlinear discrete-time systems with delayed control: A reduction. *Systems and Control Letters*, **2018**, 114, 31-37	2.4	9
90	Reduction of Discrete-Time Two-Channel Delayed Systems **2018**, 2, 339-344		0
89	Reduction-based stabilization of time-delay nonlinear dynamics **2018**,		3
88	Multi-agent quality of experience control. *International Journal of Control, Automation and Systems*, **2017**, 15, 892-904	2.9	10
87	Immersion and invariance stabilization of strict-feedback dynamics under sampling. *Automatica*, **2017**, 76, 78-86	5.7	19
86	Sampled-Data Reduction of Nonlinear Input-Delayed Dynamics **2017**, 1, 116-121		7
85	Sampled-Data Stabilization of Nonlinear Dynamics With Input Delays Through Immersion and Invariance. *IEEE Transactions on Automatic Control*, **2017**, 62, 2561-2567	5.9	22
84	Further results on sampled-data stabilization of time-delay systems. *IFAC-PapersOnLine*, **2017**, 50, 14350-14355	0.7	3
83	On partially minimum phase systems and nonlinear sampled-data control **2017**,		2
82	Lyapunov stabilization of discrete-time feedforward dynamics **2017**,		7
81	Stabilization of feedforward discrete-time dynamics through immersion and invariance **2016**,		6
80	. *IEEE Transactions on Automatic Control*, **2016**, 61, 1208-1222	5.9	28
79	Sampled-data stabilization of feedforward dynamics with Lyapunov cross-term **2016**,		2
78	Distributed Control in Virtualized Networks. *Procedia Computer Science*, **2015**, 56, 276-283	1.6	4
77	Robust Nonlinear Attitude Stabilization of a Spacecraft through Digital Implementation of an Immersion & Invariance Stabilizer11This work was supported by the Italian project PLATINO (Grant Agreement nr. PON0101007). *IFAC-PapersOnLine*, **2015**, 48, 4-9	0.7	1

76	Digital stabilization of strict feedback dynamics through immersion and invariance**This work is supported by a public grant overseen by the French National research Agency (ANR) as part of the Investissement d'Avenir program, through the CODE project funded by the IDEX Paris-Saclay, ANR-11IDEX-0003-02". *IFAC-PapersOnLine*, **2015**, 48, 1074-1079	0.7	2
75	**2015**,		2
74	A reinforcement learning approach for QoS/QoE model identification **2015**,		2
73	**2015**,		5
72	Sampled-data stabilisation of a class of state-delayed nonlinear dynamics **2015**,		3
71	On the Exact Steering of Finite Sampled Nonlinear Dynamics with Input Delays**This work was supported by the Italian Ministry of Education, Research and University, namely by the PLATINO PON project (www.progettoplatino.it), under Grant Agreement no. PON01 01007.. *IFAC-PapersOnLine*, **2015**, 48, 674-679	0.7	5
70	Multi-rate sampled-data stabilization of a class of nonlinear systems **2015**,		3
69	A Q-Learning based approach to Quality of Experience control in cognitive Future Internet networks **2015**,		6
68	On optimality of passivity based controllers in discrete-time. *Systems and Control Letters*, **2015**, 75, 117-123	2.4	2
67	Nonlinear Autopilot Design for an Asymmetric Missile Using Robust Backstepping Control. *Journal of Guidance, Control, and Dynamics*, **2014**, 37, 1462-1476	2.1	27
66	A control approach for plasma density in tokamak machines. *Fusion Engineering and Design*, **2013**, 88, 1097-1100	1.7	2
65	Stabilization of nonlinear discrete-time dynamics in strict-feedforward form **2013**,		1
64	Digital stabilization of finite sampled nonlinear dynamics with delays: The unicycle example **2013**,		2
63	Kinetics of photoinduced matter transport driven by intensity and polarization in thin films containing azobenzene. *Physical Review B*, **2012**, 86,	3.3	20
62	Robust backstepping control of missile lateral and rolling motions in the presence of unmatched uncertainties **2012**,		2
61	Digital stabilization of delayed-input strict-feedforward dynamics **2012**,		8
60	Nonlinear optimal stabilizing control under sampling **2012**,		1
59	Adaptive inverse control using kernel identification **2012**,		3

58	Nonlinear Robust Autopilot for Rolling and Lateral Motions of an Aerodynamic Missile **2012**,		1
57	Nonlinear optimal stabilizing control in discrete time **2012**,		5
56	Nonlinear Torque Control for High Power Induction Motors with Digital Implementation. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 9905-9910		
55	. *IEEE Transactions on Automatic Control*, **2011**, 56, 907-912	5.9	50
54	. *IEEE Transactions on Nuclear Science*, **2011**, 58, 1778-1783	1.7	8
53	Nonlinear average passivity and stabilizing controllers in discrete time. *Systems and Control Letters*, **2011**, 60, 431-439	2.4	28
52	IDA-PBC under sampling for port-controlled hamiltonian systems **2010**,		15
51	Average passivity for discrete-time and sampled-data linear systems **2010**,		3
50	Sampled-data redesign of stabilizing feedback **2010**,		4
49	Input-state matching under piecewise constant control for systems on matrix Lie groups **2010**,		1
48	Nonlinear port controlled Hamiltonian systems under sampling **2009**,		7
47	Galileo Galilei (GG) a small satellite to test the equivalence principle of Galileo, Newton and Einstein. *Experimental Astronomy*, **2009**, 23, 689-710	1.3	20
46	Canonical observer forms for multi-output systems up to coordinate and output transformations in discrete time. *Automatica*, **2009**, 45, 2483-2490	5.7	25
45	Linearization by Output Injection under Approximate Sampling. *European Journal of Control*, **2009**, 15, 205-217	2.5	2
44	Lyapunov design under sampling for a synchronous machine **2009**,		4
43	From passivity under sampling to a new discrete-time passivity concept **2008**,		16
42	Controller and Observer Normal Forms in Discrete-Time **2008**, 377-396		1
41	From Chronological Calculus to Exponential Representations of Continuous and Discrete-Time Dynamics: A Lie-Algebraic Approach. *IEEE Transactions on Automatic Control*, **2007**, 52, 2227-2241	5.9	29

40	Accessibility under multirate control for nilpotent lie algebra **2007**,		1
39	Advanced Tools for Nonlinear Sampled-Data Systems Analysis and Control. *European Journal of Control*, **2007**, 13, 221-241	2.5	52
38	Normal forms and approximated feedback linearization in discrete time. *Systems and Control Letters*, **2006**, 55, 71-80	2.4	7
37	Non-linear non-interacting control with stability in discrete time: a dynamic solution. *International Journal of Control*, **2005**, 78, 443-459	1.5	2
36	Toward a mobile autonomous robotic system for Mars exploration. *Planetary and Space Science*, **2004**, 52, 23-30	2	10
35	On the observer design in discrete-time. *Systems and Control Letters*, **2003**, 49, 255-265	2.4	65
34	Non-linear non-interacting control with stability in discrete-time: A geometric framework. *International Journal of Control*, **2002**, 75, 11-22	1.5	9
33	Distribution of major and trace elements in La Luna Formation, Southwestern Venezuelan Basin. *Organic Geochemistry*, **2002**, 33, 1593-1608	3.1	20
32	Nonlinear discrete-time control of systems with a Naimark Sacker bifurcation. *Systems and Control Letters*, **2001**, 44, 245-258	2.4	24
31	The weighted incremental norm approach: from linear to nonlinear H control. *Automatica*, **2001**, 37, 1585-1592	5.7	21
30	Authors' reply to Comments on 'On the discrete time normal form'. *IEEE Transactions on Automatic Control*, **2001**, 45, 995	5.9	1
29	Evaluation of a proposed test of the weak equivalence principle using Earth-orbiting bodies in high-speed co-rotation: re-establishing the physical bases. *Classical and Quantum Gravity*, **1999**, 16, 1463-1470	3.3	16
28	Nonlinear representations and passivity conditions in discrete time. *Lecture Notes in Control and Information Sciences*, **1999**, 422-433	0.5	3
27	Discrete-time approximated linearization of SISO systems under output feedback. *IEEE Transactions on Automatic Control*, **1999**, 44, 1729-1733	5.9	16
26	On the discrete-time normal form. *IEEE Transactions on Automatic Control*, **1998**, 43, 1654-1658	5.9	15
25	On regulation under sampling. *IEEE Transactions on Automatic Control*, **1997**, 42, 864-868	5.9	35
24	Quadratic forms and approximate feed back linearization in discrete time. *International Journal of Control*, **1997**, 67, 567-586	1.5	25
23	Analysis and Control of Nonlinear Singularly Perturbed Systems under Sampling1 1The first part of this work concerning the discretization of NLSP systems was partially presented in the Ph.D. dissertation of N. Pantalos. *Control and Dynamic Systems*, **1996**, 203-246		6

22	Asymptotic properties of incrementally stable systems. *IEEE Transactions on Automatic Control*, **1996**, 41, 721-723	5.9	44
21	On H∞ control of discrete-time nonlinear systems. *International Journal of Robust and Nonlinear Control*, **1996**, 6, 633-643	3.6	12
20	A link between input-output stability and Lyapunov stability. *Systems and Control Letters*, **1996**, 27, 243-248	2.4	14
19	On halo orbits spacecraft stabilization. *Acta Astronautica*, **1996**, 38, 903-925	2.9	14
18	On the control of regularly e-perturbed nonlinear systems. *International Journal of Control*, **1994**, 59, 1255-1279	1.5	6
17	Nonlinear regulation for a class of discrete-time systems. *Systems and Control Letters*, **1993**, 20, 57-65	2.4	39
16	Multirate Sampling and Zero Dynamics: from linear to nonlinear **1991**, 200-213		12
15	Functional expansions for nonlinear discrete-time systems. *Mathematical Systems Theory*, **1988**, 21, 235-254		16
14	Zero dynamics of sampled nonlinear systems. *Systems and Control Letters*, **1988**, 11, 229-234	2.4	93
13	Finite Volterra-series realizations and input-output approximations of non-linear discrete-time systems. *International Journal of Control*, **1987**, 45, 1771-1787	1.5	7
12	On the realization of nonlinear discrete-time systems. *Systems and Control Letters*, **1984**, 5, 145-152	2.4	8
11	Invariant distributions for discrete-time nonlinear systems. *Systems and Control Letters*, **1984**, 5, 191-196	2.4	34
10	Functional output ε-controllability for linear systems on Hilbert spaces. *Systems and Control Letters*, **1983**, 2, 313-320	2.4	3
9	On the immersion of a discrete-time polynomial analytic system into a polynomial affine one. *Systems and Control Letters*, **1983**, 3, 83-90	2.4	13
8	The immersion under feedback of a multidimensional discrete-time non-linear system into a linear system. *International Journal of Control*, **1983**, 38, 245-261	1.5	52
7	Nonlinear decoupling via feedback: A differential geometric approach. *IEEE Transactions on Automatic Control*, **1981**, 26, 331-345	5.9	404
6	Locally (f,g) invariant distributions. *Systems and Control Letters*, **1981**, 1, 12-15	2.4	43
5	Some results on the controllability of perturbed linear systems on Hilbert spaces. *Systems and Control Letters*, **1981**, 1, 140-147	2.4	2

4	Structure theory of state-affine systems. *Journal of the Franklin Institute*, **1977**, 303, 189-199	4
3	Discrete-time versus hybrid systems	1
2	On the differential/difference representation of sampled dynamics	5
1	Station-Keeping of L2 Halo Orbits Under Sampled-Data Model Predictive Control. *Journal of Guidance, Control, and Dynamics*,1-10	2.1