

Sandro Zampieri

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

96
papers

3,902
citations

25
h-index

61
g-index

98
ext. papers

4,670
ext. citations

4.4
avg, IF

5.87
L-index

#	Paper	IF	Citations
96	Non-Normality Improves Information Transmission Performance of Network Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 1-1	4	0
95	Efficient communication over complex dynamical networks: The role of matrix non-normality. <i>Science Advances</i> , 2020 , 6, eaba2282	14.3	8
94	Model Reduction Based Approximation of the Output Controllability Gramian in Large-Scale Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 1778-1788	4	1
93	Fragility Limits Performance in Complex Networks. <i>Scientific Reports</i> , 2020 , 10, 1774	4.9	3
92	Distributed Minimization of the Power Generation Cost in Prosumer-Based Distribution Networks 2020 ,		5
91	On the Need for Communication for Voltage Regulation of Power Distribution Grids. <i>IEEE Transactions on Control of Network Systems</i> , 2019 , 6, 1111-1123	4	24
90	The Shannon Capacity of Linear Dynamical Networks 2019 ,		2
89	Brain controllability: Not a slam dunk yet. <i>NeuroImage</i> , 2019 , 200, 552-555	7.9	2
88	Gramian Optimization with Input-Power Constraints 2019 ,		3
87	Information Transmission in Dynamical Networks: The Normal Network Case 2019 , 2018,	1.3	2
86	Warnings and caveats in brain controllability. <i>NeuroImage</i> , 2018 , 176, 83-91	7.9	34
85	Fragility and Controllability Tradeoff in Complex Networks 2018 ,		7
84	Controllability of Large-Scale Networks: An Output Controllability Approach 2018 ,		9
83	On the Relation Between Non-normality and Diameter in Linear Dynamical Networks 2018 ,		6
82	On the Role of Network Centrality in the Controllability of Complex Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2017 , 4, 643-653	4	38
81	On the dynamics of deterministic epidemic propagation over networks. <i>Annual Reviews in Control</i> , 2017 , 44, 116-128	10.3	65
80	On the Existence and Linear Approximation of the Power Flow Solution in Power Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 163-172	7	217

79	A Randomized Linear Algorithm for Clock Synchronization in Multi-Agent Systems. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1711-1726	5.9	18
78	2016,		22
77	Distributed Reactive Power Feedback Control for Voltage Regulation and Loss Minimization. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 966-981	5.9	135
76	The role of diameter in the controllability of complex networks 2015,		8
75	Network Clock Synchronization Based on the Second-Order Linear Consensus Algorithm. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 409-422	5.9	68
74	Controllability metrics, limitations and algorithms for complex networks 2014,		14
73	. <i>IEEE Transactions on Control of Network Systems</i> , 2014 , 1, 40-52	4	335
72	On the controllability of isotropic and anisotropic networks 2014,		25
71	On reactive power flow and voltage stability in microgrids 2014,		15
70	A distributed control algorithm for the minimization of the power generation cost in smart micro-grid 2014,		15
69	A Distributed Control Strategy for Reactive Power Compensation in Smart Microgrids. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2818-2833	5.9	161
68	Resistance-Based Performance Analysis of the Consensus Algorithm over Geometric Graphs. <i>SIAM Journal on Control and Optimization</i> , 2013 , 51, 3918-3945	1.9	19
67	A distributed control strategy for optimal reactive power flow with power and voltage constraints 2013,		9
66	A distributed control strategy for optimal reactive power flow with power constraints 2013,		7
65	A Distributed Feedback Control Approach to the Optimal Reactive Power Flow Problem. <i>Lecture Notes in Control and Information Sciences</i> , 2013 , 259-277	0.5	5
64	Mean Square Performance of Consensus-Based Distributed Estimation over Regular Geometric Graphs. <i>SIAM Journal on Control and Optimization</i> , 2012 , 50, 306-333	1.9	7
63	A randomized linear algorithm for clock synchronization in multi-agent systems 2012,		8
62	Distributed multi-hop reactive power compensation in smart micro-grids subject to saturation constraints 2012,		13

61	Performance metrics in the average consensus problem: A tutorial. <i>Annual Reviews in Control</i> , 2012 , 36, 26-41	10.3	19
60	Performance analysis of a distributed algorithm for dynamic reactive power compensation 2012 ,		3
59	Autonomous calibration algorithms for networks of cameras 2012 ,		9
58	Convergence analysis of a distributed voltage support strategy for optimal reactive power compensation*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 145-150		2
57	Distributed control for optimal reactive power compensation in smart microgrids 2011 ,		21
56	A PI controller based on asymmetric gossip communications for clocks synchronization in wireless sensors networks 2011 ,		27
55	A gossip-like distributed optimization algorithm for reactive power flow control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 5700-5705		8
54	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2011 , 5, 691-706	7.5	29
53	A majorization inequality and its application to distributed Kalman filtering. <i>Automatica</i> , 2011 , 47, 2438-2443	3.7	5
52	Optimal Synchronization for Networks of Noisy Double Integrators. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 1146-1152	5.9	74
51	Gossip algorithms for distributed ranking 2011 ,		5
50	Networked clock synchronization based on second order linear consensus algorithms 2010 ,		19
49	Distributed Quasi-Newton Method and its Application to the Optimal Reactive Power Flow Problem. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 305-310		6
48	Gossip consensus algorithms via quantized communication. <i>Automatica</i> , 2010 , 46, 70-80	5.7	153
47	Quantized average consensus via dynamic coding/decoding schemes. <i>International Journal of Robust and Nonlinear Control</i> , 2010 , 20, 156-175	3.6	124
46	Trust Estimation in autonomic networks: a statistical mechanics approach 2009 ,		10
45	Average consensus on networks with quantized communication. <i>International Journal of Robust and Nonlinear Control</i> , 2009 , 19, 1787-1816	3.6	153
44	Optimal strategies in the average consensus problem. <i>Systems and Control Letters</i> , 2009 , 58, 759-765	2.4	27

43	Distributed estimation through randomized gossip Kalman filter 2009 ,		3
42	Average Consensus with Packet Drop Communication. <i>SIAM Journal on Control and Optimization</i> , 2009 , 48, 102-133	1.9	91
41	Performance of consensus algorithms in large-scale distributed estimation 2009 ,		2
40	An efficient quantization algorithm for solving average-consensus problems 2009 ,		2
39	. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 634-649	14.2	204
38	Distributed Kalman filtering based on consensus strategies. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 622-633	14.2	332
37	Anytime reliable transmission of real-valued information through digital noisy channels 2008 ,		1
36	The quantization error in the average consensus problem 2008 ,		4
35	Average consensus by gossip algorithms with quantized communication 2008 ,		25
34	Quantized average consensus via dynamic coding/decoding schemes 2008 ,		6
33	A probabilistic analysis of the average consensus algorithm with quantized communication. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 8062-8067		9
32	Communication constraints in the average consensus problem. <i>Automatica</i> , 2008 , 44, 671-684	5.7	190
31	Average consensus on networks with transmission noise or quantization 2007 ,		16
30	Optimal strategies in the average consensus problem 2007 ,		18
29	Distributed Kalman filtering using consensus strategies 2007 ,		26
28	Feedback Control Under Data Rate Constraints: An Overview. <i>Proceedings of the IEEE</i> , 2007 , 95, 108-137	14.3	602
27	2007 ,		16
26	On rendezvous control with randomly switching communication graphs. <i>Networks and Heterogeneous Media</i> , 2007 , 2, 627-646	1.6	3

25	Efficient Quantization in the Average Consensus Problem 2007 , 31-49		6
24	Average consensus with packet drop communication 2006 ,		9
23	Optimal rendezvous control for randomized communication topologies 2006 ,		6
22	A Symbolic Approach to Performance Analysis of Quantized Feedback Systems: The Scalar Case. <i>SIAM Journal on Control and Optimization</i> , 2005 , 44, 816-866	1.9	14
21	ON QUANTIZATION AND COMMUNICATION TOPOLOGIES IN MULTI-VEHICLE RENDEZVOUS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 109-114		6
20	Minimal and systematic convolutional codes over finite Abelian groups. <i>Linear Algebra and Its Applications</i> , 2004 , 378, 31-59	0.9	7
19	Quantized stabilization of linear systems: complexity versus performance. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 1534-1548	5.9	68
18	Stability analysis and synthesis for scalar linear systems with a quantized feedback. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 1569-1584	5.9	108
17	Module theoretic approach to controllability of convolutional systems. <i>Linear Algebra and Its Applications</i> , 2002 , 351-352, 739-759	0.9	10
16	System-theoretic properties of convolutional codes over rings. <i>IEEE Transactions on Information Theory</i> , 2001 , 47, 2256-2274	2.8	29
15	Some results on systems described by convolutional equations. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 793-797	5.9	6
14	Linear Quadratic Optimization for Systems in the Behavioral Approach. <i>SIAM Journal on Control and Optimization</i> , 2000 , 39, 159-178	1.9	5
13	Minimal syndrome formers for group codes. <i>IEEE Transactions on Information Theory</i> , 1999 , 45, 3-31	2.8	3
12	Two-Dimensional Proper Rational Matrices and Causal Input/Output Representations of Two-Dimensional Behavioral Systems. <i>SIAM Journal on Control and Optimization</i> , 1999 , 37, 1538-1552	1.9	3
11	Causal Input/Output Representation of 2D Systems in the Behavioral Approach. <i>SIAM Journal on Control and Optimization</i> , 1998 , 36, 1133-1146	1.9	5
10	A behavioral approach to identifiability of 2D scalar systems. <i>Automatica</i> , 1997 , 33, 49-61	5.7	3
9	Canonical kernel representations for behaviors over finite Abelian groups. <i>Systems and Control Letters</i> , 1997 , 32, 271-282	2.4	5
8	Difference equations, shift operators and systems over Noetherian factorial domains. <i>Journal of Pure and Applied Algebra</i> , 1997 , 122, 55-86	0.6	1

7	Dynamical systems and convolutional codes over finite Abelian groups. <i>IEEE Transactions on Information Theory</i> , 1996 , 42, 1892-1912	2.8	14
6	Gröbner Bases with Respect to Generalized Term Orders and their Application to the Modelling Problem. <i>Journal of Symbolic Computation</i> , 1996 , 21, 155-168	0.8	5
5	Adirectional Markov models for 2D systems. <i>IMA Journal of Mathematical Control and Information</i> , 1995 , 12, 37-56	1.1	2
4	A solution of the Cauchy problem for multidimensional discrete linear shift-invariant systems. <i>Linear Algebra and Its Applications</i> , 1994 , 202, 143-162	0.9	15
3	A note on the state space realization of 2D FIR transfer functions. <i>Systems and Control Letters</i> , 1991 , 16, 117-122	2.4	10
2	2D residual generation and dead-beat observers. <i>Systems and Control Letters</i> , 1991 , 17, 483-492	2.4	7
1	Recursive partial realization for 2-D data arrays. <i>Multidimensional Systems and Signal Processing</i> , 1991 , 2, 101-126	1.8	