

Sandro Zampieri

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1881234/publications.pdf>

Version: 2024-02-01

98
papers

5,317
citations

257101

24
h-index

133063

59
g-index

98
all docs

98
docs citations

98
times ranked

3192
citing authors

#	ARTICLE	IF	CITATIONS
1	Feedback Control Under Data Rate Constraints: An Overview. Proceedings of the IEEE, 2007, 95, 108-137.	16.4	824
2	Controllability Metrics, Limitations and Algorithms for Complex Networks. IEEE Transactions on Control of Network Systems, 2014, 1, 40-52.	2.4	452
3	Distributed Kalman filtering based on consensus strategies. IEEE Journal on Selected Areas in Communications, 2008, 26, 622-633.	9.7	413
4	On the Existence and Linear Approximation of the Power Flow Solution in Power Distribution Networks. IEEE Transactions on Power Systems, 2016, 31, 163-172.	4.6	303
5	Randomized consensus algorithms over large scale networks. IEEE Journal on Selected Areas in Communications, 2008, 26, 634-649.	9.7	264
6	Communication constraints in the average consensus problem. Automatica, 2008, 44, 671-684.	3.0	232
7	A Distributed Control Strategy for Reactive Power Compensation in Smart Microgrids. IEEE Transactions on Automatic Control, 2013, 58, 2818-2833.	3.6	218
8	Average consensus on networks with quantized communication. International Journal of Robust and Nonlinear Control, 2009, 19, 1787-1816.	2.1	199
9	Distributed Reactive Power Feedback Control for Voltage Regulation and Loss Minimization. IEEE Transactions on Automatic Control, 2015, 60, 966-981.	3.6	194
10	Gossip consensus algorithms via quantized communication. Automatica, 2010, 46, 70-80.	3.0	192
11	Quantized average consensus via dynamic coding/decoding schemes. International Journal of Robust and Nonlinear Control, 2010, 20, 156-175.	2.1	166
12	Stability analysis and synthesis for scalar linear systems with a quantized feedback. IEEE Transactions on Automatic Control, 2003, 48, 1569-1584.	3.6	151
13	Average Consensus with Packet Drop Communication. SIAM Journal on Control and Optimization, 2009, 48, 102-133.	1.1	122
14	On the dynamics of deterministic epidemic propagation over networks. Annual Reviews in Control, 2017, 44, 116-128.	4.4	120
15	Quantized Stabilization of Linear Systems: Complexity Versus Performance. IEEE Transactions on Automatic Control, 2004, 49, 1534-1548.	3.6	94
16	Optimal Synchronization for Networks of Noisy Double Integrators. IEEE Transactions on Automatic Control, 2011, 56, 1146-1152.	3.6	91
17	Network Clock Synchronization Based on the Second-Order Linear Consensus Algorithm. IEEE Transactions on Automatic Control, 2014, 59, 409-422.	3.6	85
18	Warnings and caveats in brain controllability. NeuroImage, 2018, 176, 83-91.	2.1	57

#	ARTICLE	IF	CITATIONS
19	On the Role of Network Centrality in the Controllability of Complex Networks. IEEE Transactions on Control of Network Systems, 2017, 4, 643-653.	2.4	48
20	On the Need for Communication for Voltage Regulation of Power Distribution Grids. IEEE Transactions on Control of Network Systems, 2019, 6, 1111-1123.	2.4	45
21	Optimal strategies in the average consensus problem. Systems and Control Letters, 2009, 58, 759-765.	1.3	44
22	Average consensus on networks with transmission noise or quantization. , 2007, , .		43
23	Distributed Kalman filtering using consensus strategies. , 2007, , .		42
24	System-theoretic properties of convolutional codes over rings. IEEE Transactions on Information Theory, 2001, 47, 2256-2274.	1.5	36
25	Average consensus by gossip algorithms with quantized communication. , 2008, , .		33
26	A PI controller based on asymmetric gossip communications for clocks synchronization in wireless sensors networks. , 2011, , .		33
27	Gossip Algorithms for Simultaneous Distributed Estimation and Classification in Sensor Networks. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 691-706.	7.3	32
28	The value of communication in the voltage regulation problem. , 2016, , .		32
29	A Randomized Linear Algorithm for Clock Synchronization in Multi-Agent Systems. IEEE Transactions on Automatic Control, 2016, 61, 1711-1726.	3.6	28
30	Optimal strategies in the average consensus problem. , 2007, , .		27
31	Controllability metrics, limitations and algorithms for complex networks. , 2014, , .		27
32	Randomized consensus algorithms over large scale networks. , 2007, , .		25
33	On the controllability of isotropic and anisotropic networks. , 2014, , .		25
34	Networked clock synchronization based on second order linear consensus algorithms. , 2010, , .		24
35	Distributed control for optimal reactive power compensation in smart microgrids. , 2011, , .		22
36	Resistance-Based Performance Analysis of the Consensus Algorithm over Geometric Graphs. SIAM Journal on Control and Optimization, 2013, 51, 3918-3945.	1.1	22

#	ARTICLE	IF	CITATIONS
37	Performance metrics in the average consensus problem: A tutorial. Annual Reviews in Control, 2012, 36, 26-41.	4.4	21
38	On reactive power flow and voltage stability in microgrids. , 2014, , .		20
39	Efficient communication over complex dynamical networks: The role of matrix non-normality. Science Advances, 2020, 6, eaba2282.	4.7	20
40	Dynamical systems and convolutional codes over finite Abelian groups. IEEE Transactions on Information Theory, 1996, 42, 1892-1912.	1.5	19
41	A distributed control algorithm for the minimization of the power generation cost in smart micro-grid. , 2014, , .		19
42	A solution of the Cauchy problem for multidimensional discrete linear shift-invariant systems. Linear Algebra and Its Applications, 1994, 202, 143-162.	0.4	18
43	A Symbolic Approach to Performance Analysis of Quantized Feedback Systems: The Scalar Case. SIAM Journal on Control and Optimization, 2005, 44, 816-866.	1.1	18
44	A probabilistic analysis of the average consensus algorithm with quantized communication. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8062-8067.	0.4	17
45	Average consensus with packet drop communication. , 2006, , .		15
46	A gossip-like distributed optimization algorithm for reactive power flow control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5700-5705.	0.4	15
47	Trust Estimation in autonomic networks: a statistical mechanics approach. , 2009, , .		14
48	Distributed multi-hop reactive power compensation in smart micro-grids subject to saturation constraints. , 2012, , .		14
49	A distributed control strategy for optimal reactive power flow with power and voltage constraints. , 2013, , .		13
50	Fragility and Controllability Tradeoff in Complex Networks. , 2018, , .		13
51	A note on the state space realization of 2D FIR transfer functions. Systems and Control Letters, 1991, 16, 117-122.	1.3	12
52	Autonomous calibration algorithms for networks of cameras. , 2012, , .		12
53	Brain controllability: Not a slam dunk yet. NeuroImage, 2019, 200, 552-555.	2.1	12
54	Causal Input/Output Representation of 2D Systems in the Behavioral Approach. SIAM Journal on Control and Optimization, 1998, 36, 1133-1146.	1.1	11

#	ARTICLE	IF	CITATIONS
55	Gossip algorithms for distributed ranking. , 2011, , .		11
56	Fragility Limits Performance in Complex Networks. Scientific Reports, 2020, 10, 1774.	1.6	11
57	Module theoretic approach to controllability of convolutional systems. Linear Algebra and Its Applications, 2002, 351-352, 739-759.	0.4	10
58	Minimal and systematic convolutional codes over finite Abelian groups. Linear Algebra and Its Applications, 2004, 378, 31-59.	0.4	10
59	Quantized average consensus via dynamic coding/decoding schemes. , 2008, , .		10
60	Mean Square Performance of Consensus-Based Distributed Estimation over Regular Geometric Graphs. SIAM Journal on Control and Optimization, 2012, 50, 306-333.	1.1	10
61	A distributed control strategy for optimal reactive power flow with power constraints. , 2013, , .		10
62	The role of diameter in the controllability of complex networks. , 2015, , .		10
63	Minimal syndrome formers for group codes. IEEE Transactions on Information Theory, 1999, 45, 3-31.	1.5	9
64	Distributed Quasi-Newton Method and its Application to the Optimal Reactive Power Flow Problem. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 305-310.	0.4	9
65	A randomized linear algorithm for clock synchronization in multi-agent systems. , 2012, , .		9
66	Controllability of Large-Scale Networks: An Output Controllability Approach. , 2018, , .		9
67	Gr�bner Bases with Respect to Generalized Term Orders and their Application to the Modelling Problem. Journal of Symbolic Computation, 1996, 21, 155-168.	0.5	8
68	Optimal rendezvous control for randomized communication topologies. , 2006, , .		8
69	Efficient Quantization in the Average Consensus Problem. , 2007, , 31-49.		8
70	A Distributed Feedback Control Approach to the Optimal Reactive Power Flow Problem. Lecture Notes in Control and Information Sciences, 2013, , 259-277.	0.6	8
71	2D residual generation and dead-beat observers. Systems and Control Letters, 1991, 17, 483-492.	1.3	7
72	Some results on systems described by convolutional equations. IEEE Transactions on Automatic Control, 2001, 46, 793-797.	3.6	7

#	ARTICLE	IF	CITATIONS
73	ON QUANTIZATION AND COMMUNICATION TOPOLOGIES IN MULTI-VEHICLE RENDEZVOUS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 109-114.	0.4	7
74	Gramian Optimization with Input-Power Constraints. , 2019, , .		7
75	Linear Quadratic Optimization for Systems in the Behavioral Approach. SIAM Journal on Control and Optimization, 2000, 39, 159-178.	1.1	6
76	A majorization inequality and its application to distributed Kalman filtering. Automatica, 2011, 47, 2438-2443.	3.0	6
77	On the Relation Between Non-normality and Diameter in Linear Dynamical Networks. , 2018, , .		6
78	Canonical kernel representations for behaviors over finite Abelian groups. Systems and Control Letters, 1997, 32, 271-282.	1.3	5
79	Two-Dimensional Proper Rational Matrices and Causal Input/Output Representations of Two-Dimensional Behavioral Systems. SIAM Journal on Control and Optimization, 1999, 37, 1538-1552.	1.1	5
80	Distributed estimation through randomized gossip Kalman filter. , 2009, , .		5
81	Model Reduction Based Approximation of the Output Controllability Gramian in Large-Scale Networks. IEEE Transactions on Control of Network Systems, 2020, 7, 1778-1788.	2.4	5
82	Non-normality Improves Information Transmission Performance of Network Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 1846-1858.	2.4	5
83	Distributed Minimization of the Power Generation Cost in Prosumer-Based Distribution Networks. , 2020, , .		5
84	Performance of consensus algorithms in large-scale distributed estimation. , 2009, , .		5
85	The quantization error in the average consensus problem. , 2008, , .		4
86	Performance analysis of a distributed algorithm for dynamic reactive power compensation. , 2012, , .		4
87	Convergence analysis of a distributed voltage support strategy for optimal reactive power compensation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 145-150.	0.4	4
88	An efficient quantization algorithm for solving average-consensus problems. , 2009, , .		4
89	A behavioral approach to identifiability of 2D scalar systems. Automatica, 1997, 33, 49-61.	3.0	3
90	The Shannon Capacity of Linear Dynamical Networks. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
91	On rendezvous control with randomly switching communication graphs. <i>Networks and Heterogeneous Media</i> , 2007, 2, 627-646.	0.5	3
92	Energy-Aware Controllability of Complex Networks. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2022, 5, 465-489.	7.5	3
93	Adirectional Markov models for 2D systems. <i>IMA Journal of Mathematical Control and Information</i> , 1995, 12, 37-56.	1.1	2
94	Anytime reliable transmission of real-valued information through digital noisy channels. , 2008, , .		2
95	Information Transmission in Dynamical Networks: The Normal Network Case. , 2018, 2018, .		2
96	Symmetries in the Coordinated Consensus Problem. , 0, , 25-51.		2
97	Recursive partial realization for 2-D data arrays. <i>Multidimensional Systems and Signal Processing</i> , 1991, 2, 101-126.	1.7	1
98	Difference equations, shift operators and systems over Noetherian factorial domains. <i>Journal of Pure and Applied Algebra</i> , 1997, 122, 55-86.	0.3	1