

Sandro Zampieri

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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 | Feedback Control Under Data Rate Constraints: An Overview. <i>Proceedings of the IEEE</i> , 2007 , 95, 108-137 | 14.3 | 602 |
| 95 | . <i>IEEE Transactions on Control of Network Systems</i> , 2014 , 1, 40-52 | 4 | 335 |
| 94 | Distributed Kalman filtering based on consensus strategies. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 622-633 | 14.2 | 332 |
| 93 | 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 |
| 92 | . <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 634-649 | 14.2 | 204 |
| 91 | Communication constraints in the average consensus problem. <i>Automatica</i> , 2008 , 44, 671-684 | 5.7 | 190 |
| 90 | 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 |
| 89 | Average consensus on networks with quantized communication. <i>International Journal of Robust and Nonlinear Control</i> , 2009 , 19, 1787-1816 | 3.6 | 153 |
| 88 | Gossip consensus algorithms via quantized communication. <i>Automatica</i> , 2010 , 46, 70-80 | 5.7 | 153 |
| 87 | 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 |
| 86 | Quantized average consensus via dynamic coding/decoding schemes. <i>International Journal of Robust and Nonlinear Control</i> , 2010 , 20, 156-175 | 3.6 | 124 |
| 85 | 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 |
| 84 | Average Consensus with Packet Drop Communication. <i>SIAM Journal on Control and Optimization</i> , 2009 , 48, 102-133 | 1.9 | 91 |
| 83 | Optimal Synchronization for Networks of Noisy Double Integrators. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 1146-1152 | 5.9 | 74 |
| 82 | 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 |
| 81 | Quantized stabilization of linear systems: complexity versus performance. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 1534-1548 | 5.9 | 68 |
| 80 | On the dynamics of deterministic epidemic propagation over networks. <i>Annual Reviews in Control</i> , 2017 , 44, 116-128 | 10.3 | 65 |

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| 79 | 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 |
| 78 | Warnings and caveats in brain controllability. <i>NeuroImage</i> , 2018 , 176, 83-91 | 7.9 | 34 |
| 77 | . <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2011 , 5, 691-706 | 7.5 | 29 |
| 76 | System-theoretic properties of convolutional codes over rings. <i>IEEE Transactions on Information Theory</i> , 2001 , 47, 2256-2274 | 2.8 | 29 |
| 75 | A PI controller based on asymmetric gossip communications for clocks synchronization in wireless sensors networks 2011 , | | 27 |
| 74 | Optimal strategies in the average consensus problem. <i>Systems and Control Letters</i> , 2009 , 58, 759-765 | 2.4 | 27 |
| 73 | Distributed Kalman filtering using consensus strategies 2007 , | | 26 |
| 72 | On the controllability of isotropic and anisotropic networks 2014 , | | 25 |
| 71 | Average consensus by gossip algorithms with quantized communication 2008 , | | 25 |
| 70 | 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 |
| 69 | 2016 , | | 22 |
| 68 | Distributed control for optimal reactive power compensation in smart microgrids 2011 , | | 21 |
| 67 | 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 |
| 66 | Performance metrics in the average consensus problem: A tutorial. <i>Annual Reviews in Control</i> , 2012 , 36, 26-41 | 10.3 | 19 |
| 65 | Networked clock synchronization based on second order linear consensus algorithms 2010 , | | 19 |
| 64 | 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 |
| 63 | Optimal strategies in the average consensus problem 2007 , | | 18 |
| 62 | Average consensus on networks with transmission noise or quantization 2007 , | | 16 |

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| 61 | 2007, | | 16 |
| 60 | On reactive power flow and voltage stability in microgrids 2014, | | 15 |
| 59 | A distributed control algorithm for the minimization of the power generation cost in smart micro-grid 2014, | | 15 |
| 58 | 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 |
| 57 | Controllability metrics, limitations and algorithms for complex networks 2014, | | 14 |
| 56 | 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 |
| 55 | Dynamical systems and convolutional codes over finite Abelian groups. <i>IEEE Transactions on Information Theory</i> , 1996 , 42, 1892-1912 | 2.8 | 14 |
| 54 | Distributed multi-hop reactive power compensation in smart micro-grids subject to saturation constraints 2012, | | 13 |
| 53 | Trust Estimation in autonomic networks: a statistical mechanics approach 2009, | | 10 |
| 52 | Module theoretic approach to controllability of convolutional systems. <i>Linear Algebra and Its Applications</i> , 2002 , 351-352, 739-759 | 0.9 | 10 |
| 51 | 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 |
| 50 | A distributed control strategy for optimal reactive power flow with power and voltage constraints 2013, | | 9 |
| 49 | Autonomous calibration algorithms for networks of cameras 2012, | | 9 |
| 48 | 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 |
| 47 | Average consensus with packet drop communication 2006, | | 9 |
| 46 | Controllability of Large-Scale Networks: An Output Controllability Approach 2018, | | 9 |
| 45 | Efficient communication over complex dynamical networks: The role of matrix non-normality. <i>Science Advances</i> , 2020 , 6, eaba2282 | 14.3 | 8 |
| 44 | The role of diameter in the controllability of complex networks 2015, | | 8 |

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| 43 | A randomized linear algorithm for clock synchronization in multi-agent systems 2012 , | | 8 |
| 42 | 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 |
| 41 | Fragility and Controllability Tradeoff in Complex Networks 2018 , | | 7 |
| 40 | 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 |
| 39 | A distributed control strategy for optimal reactive power flow with power constraints 2013 , | | 7 |
| 38 | Minimal and systematic convolutional codes over finite Abelian groups. <i>Linear Algebra and Its Applications</i> , 2004 , 378, 31-59 | 0.9 | 7 |
| 37 | 2D residual generation and dead-beat observers. <i>Systems and Control Letters</i> , 1991 , 17, 483-492 | 2.4 | 7 |
| 36 | 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 |
| 35 | Quantized average consensus via dynamic coding/decoding schemes 2008 , | | 6 |
| 34 | Optimal rendezvous control for randomized communication topologies 2006 , | | 6 |
| 33 | 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 |
| 32 | Some results on systems described by convolutional equations. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 793-797 | 5.9 | 6 |
| 31 | Efficient Quantization in the Average Consensus Problem 2007 , 31-49 | | 6 |
| 30 | On the Relation Between Non-normality and Diameter in Linear Dynamical Networks 2018 , | | 6 |
| 29 | A majorization inequality and its application to distributed Kalman filtering. <i>Automatica</i> , 2011 , 47, 2438-2443 | 3.7 | 5 |
| 28 | Gossip algorithms for distributed ranking 2011 , | | 5 |
| 27 | Canonical kernel representations for behaviors over finite Abelian groups. <i>Systems and Control Letters</i> , 1997 , 32, 271-282 | 2.4 | 5 |
| 26 | 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 |

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| 25 | Linear Quadratic Optimization for Systems in the Behavioral Approach. <i>SIAM Journal on Control and Optimization</i> , 2000 , 39, 159-178 | 1.9 | 5 |
| 24 | 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 |
| 23 | Distributed Minimization of the Power Generation Cost in Prosumer-Based Distribution Networks 2020 , | | 5 |
| 22 | 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 |
| 21 | The quantization error in the average consensus problem 2008 , | | 4 |
| 20 | Fragility Limits Performance in Complex Networks. <i>Scientific Reports</i> , 2020 , 10, 1774 | 4.9 | 3 |
| 19 | Performance analysis of a distributed algorithm for dynamic reactive power compensation 2012 , | | 3 |
| 18 | Distributed estimation through randomized gossip Kalman filter 2009 , | | 3 |
| 17 | A behavioral approach to identifiability of 2D scalar systems. <i>Automatica</i> , 1997 , 33, 49-61 | 5.7 | 3 |
| 16 | Minimal syndrome formers for group codes. <i>IEEE Transactions on Information Theory</i> , 1999 , 45, 3-31 | 2.8 | 3 |
| 15 | 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 |
| 14 | On rendezvous control with randomly switching communication graphs. <i>Networks and Heterogeneous Media</i> , 2007 , 2, 627-646 | 1.6 | 3 |
| 13 | Gramian Optimization with Input-Power Constraints 2019 , | | 3 |
| 12 | The Shannon Capacity of Linear Dynamical Networks 2019 , | | 2 |
| 11 | Brain controllability: Not a slam dunk yet. <i>NeuroImage</i> , 2019 , 200, 552-555 | 7.9 | 2 |
| 10 | 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 |
| 9 | Adirectional Markov models for 2D systems. <i>IMA Journal of Mathematical Control and Information</i> , 1995 , 12, 37-56 | 1.1 | 2 |
| 8 | Performance of consensus algorithms in large-scale distributed estimation 2009 , | | 2 |

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| 7 | An efficient quantization algorithm for solving average-consensus problems 2009 , | | 2 |
| 6 | Information Transmission in Dynamical Networks: The Normal Network Case 2019 , 2018, | 1.3 | 2 |
| 5 | 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 |
| 4 | 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 |
| 3 | Anytime reliable transmission of real-valued information through digital noisy channels 2008 , | | 1 |
| 2 | Non-Normality Improves Information Transmission Performance of Network Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 1-1 | 4 | 0 |
| 1 | Recursive partial realization for 2-D data arrays. <i>Multidimensional Systems and Signal Processing</i> , 1991 , 2, 101-126 | 1.8 | |