List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Inferring functional communities from partially observed biological networks exploiting geometric topology and side information. Scientific Reports, 2022, 12, .	1.6	6
2	Fractional Dynamics of PMU Data. IEEE Transactions on Smart Grid, 2021, 12, 2578-2588.	6.2	7
3	Bursting Rate Variability. Frontiers in Physiology, 2021, 12, 724027.	1.3	0
4	Heat-Diffusion: Pareto Optimal Dynamic Routing for Time-Varying Wireless Networks. IEEE/ACM Transactions on Networking, 2020, 28, 1520-1533.	2.6	4
5	Nonlinearity Design With Power-Law Tails for Correlation Detection in Impulsive Noise. IEEE Access, 2020, 8, 40667-40679.	2.6	1
6	Ollivier-Ricci Curvature-Based Method to Community Detection in Complex Networks. Scientific Reports, 2019, 9, 9800.	1.6	55
7	Curvature, Entropy, Congestion Management and the Power Grid. , 2019, , .		1
8	Ollivier-Ricci Curvature Approach to Cost-Effective Power Grid Congestion Management. , 2019, , .		2
9	Congestion Managment for Cost-effective Power Grid Load Balancing using FACTS and Energy Storage Devices allocated via Grid Curvature Means. , 2019, , .		1
10	Effect of quantum mechanical global phase factor on error versus sensitivity limitation in quantum routing. , 2019, , .		3
11	Simulated versus reduced noise quantum annealing in maximum independent set solution to wireless network scheduling. Quantum Information Processing, 2019, 18, 1.	1.0	6
12	Design of Feedback Control Laws for Information Transfer in Spintronics Networks. IEEE Transactions on Automatic Control, 2018, 63, 2523-2536.	3.6	16
13	Jonckheereâ€Terpstra test for nonclassical error versus logâ€sensitivity relationship of quantum spin network controllers. International Journal of Robust and Nonlinear Control, 2018, 28, 2383-2403.	2.1	13
14	Robust finite-time chaos synchronization of time-delay chaotic systems and its application in secure communication. Transactions of the Institute of Measurement and Control, 2018, 40, 1177-1187.	1.1	24
15	PMU Change Point Detection of Imminent Voltage Collapse and Stealthy Attacks. , 2018, , .		7
16	Robustness of Energy Landscape Control for Spin Networks Under Decoherence. , 2018, , .		3
17	Modeling of PMU Data Using ARFIMA Models. , 2018, , .		3
18	Identity Based Approach Under a Unified Service Model for Secure Content Distribution in ICN. , 2018, ,		0

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19	Gene Expression Is Not Random: Scaling, Long-Range Cross-Dependence, and Fractal Characteristics of Gene Regulatory Networks. Frontiers in Physiology, 2018, 9, 1446.	1.3	20
20	Structured Singular Value Analysis for Spintronics Network Information Transfer Control. IEEE Transactions on Automatic Control, 2017, 62, 6568-6574.	3.6	8
21	Empirical evaluation of the heat-diffusion collection protocol for wireless sensor networks. Computer Networks, 2017, 127, 217-232.	3.2	3
22	Multi-fractal geometry of finite networks of spins: Nonequilibrium dynamics beyond thermalization and many-body-localization. Chaos, Solitons and Fractals, 2017, 103, 622-631.	2.5	5
23	Stationary versus bifurcation regime for standing wave central pattern generator. Biomedical Signal Processing and Control, 2017, 32, 57-68.	3.5	1
24	Sensitivity and robustness of quantum spin-1 rings to parameter uncertainty. , 2017, , .		4
25	Load aggregation effect in power grid. , 2016, , .		2
26	Kendall's tau of frequency Hurst exponent as blackout proximity Margin. , 2016, , .		9
27	Evidence of long-range dependence in power grid. , 2016, , .		17
28	Differential geometric treewidth estimation in adiabatic quantum computation. Quantum Information Processing, 2016, 15, 3951-3966.	1.0	9
29	Progress Towards Computational 3-D Multicellular Systems Biology. Advances in Experimental Medicine and Biology, 2016, 936, 225-246.	0.8	27
30	The existence of a voltage collapse solution in the static-dynamic gap. , 2016, , .		3
31	Effective resistance criterion for negative curvature: Application to congestion control. , 2016, , .		6
32	Interference constrained network control based on curvature. , 2016, , .		10
33	Quantum versus simulated annealing in wireless interference network optimization. Scientific Reports, 2016, 6, 25797.	1.6	24
34	Quantifying differences in cell line population dynamics using CellPD. BMC Systems Biology, 2016, 10, 92.	3.0	21
35	Information transfer fidelity in spin networks and ring-based quantum routers. Quantum Information Processing, 2015, 14, 4751-4785.	1.0	12

36 Stationary regime for standing wave central pattern generator., 2015,,.

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37	Time optimal information transfer in spintronics networks. , 2015, , .		10
38	Statistical Structure Learning to Ensure Data Integrity in Smart Grid. IEEE Transactions on Smart Grid, 2015, 6, 1924-1933.	6.2	54
39	Indirect control invariance of Decoherence-Splitting Manifold (DSM). , 2014, , .		0
40	Wireless network capacity versus Ollivier-Ricci curvature under Heat-Diffusion (HD) protocol. , 2014, , ,		29
41	Dirichlet's principle on multiclass multihop wireless networks. , 2014, , .		7
42	Minimum delay in class of throughput-optimal control policies on wireless networks. , 2014, , .		6
43	Heat-Diffusion: Pareto optimal dynamic routing for time-varying wireless networks. , 2014, , .		14
44	Ollivier-Ricci curvature and fast approximation to tree-width in embeddability of QUBO problems. , 2014, , .		9
45	Quantum networks: anti-core of spin chains. Quantum Information Processing, 2014, 13, 1607-1637.	1.0	10
46	Differential topology of adiabatically controlled quantum processes. Quantum Information Processing, 2013, 12, 1515-1538.	1.0	6
47	Heat diffusion algorithm for resource allocation and routing in multihop wireless networks. , 2012, ,		9
48	Curvature of quantum rings. , 2012, , .		6
49	Geometry and curvature of spin networks. , 2011, , .		7
50	Euclidean versus Hyperbolic Congestion in Idealized versus Experimental Networks. Internet Mathematics, 2011, 7, 1-27.	0.7	48
51	Scaled Gromov Four-Point Condition for Network Graph Curvature Computation. Internet Mathematics, 2011, 7, 137-177.	0.7	11
52	On a standing wave Central Pattern Generator and the coherence problem. Biomedical Signal Processing and Control, 2010, 5, 336-347.	3.5	8
53	LDV control over compact riemannian manifolds. , 2010, , .		0
54	Geometry of power flow in negatively curved power grid. , 2010, , .		11

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55	Evidence of spatio-temporal transition to chaos in the spine. , 2010, , .		3
56	Control-assisted decoherence-free manifolds. , 2010, , .		2
57	Network Spinal Analysis. Journal of Alternative and Complementary Medicine, 2009, 15, 469-470.	2.1	3
58	Curvature of Indoor Sensor Network: Clustering Coefficient. Eurasip Journal on Wireless Communications and Networking, 2009, 2008, .	1.5	12
59	Scaled Gromov hyperbolic graphs. Journal of Graph Theory, 2008, 57, 157-180.	0.5	46
60	Kolmogorov-sinai causality in chaotically intertwined dynamics: A heart rate variability case study. , 2008, , .		1
61	Cooperative "curvature-driven" control of mobile autonomous sensor agent network. , 2007, , .		2
62	Upper bound on scaled Gromov-hyperbolic Ѓ. Applied Mathematics and Computation, 2007, 192, 191-204.	1.4	19
63	LDV approach to circular trajectory tracking of the underactuated hovercraft model. , 2006, , .		7
64	Visualization of a stationary CPG-revealing spinal wave. Studies in Health Technology and Informatics, 2006, 119, 198-200.	0.2	2
65	Dynamic Neural-Based Buffer Management for Queuing Systems With Self-Similar Characteristics. IEEE Transactions on Neural Networks, 2005, 16, 1163-1173.	4.8	26
66	ChiroSensor an array of non-invasive sEMG electrodes. Studies in Health Technology and Informatics, 2005, 111, 234-6.	0.2	1
67	Geometry of network security. , 2004, , .		37
68	Worm propagation and defense over hyperbolic graphs. , 2004, , .		2
69	Convexity of the joint numerical range: topological and differential geometric viewpoints. Linear Algebra and Its Applications, 2004, 376, 143-171.	0.4	53
70	Relationships between Linear Dynamically Varying Systems and Jump Linear Systems. Mathematics of Control, Signals, and Systems, 2003, 16, 207-224.	1.4	3
71	ContrÂ1e du trafic sur les réseaux à géométrie hyperbolique. Vers une théorie géométrique de la sécurité de l'acheminement de l'information. Journal Europeen Des Systemes Automatises, 2003, 37, 145-159.	0.3	20
72	Structural stability of linear dynamically varying (LDV) controllers. Systems and Control Letters, 2001, 44, 177-187.	1.3	4

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73	Eigenstructure vs Constrained H Design for Hypersonic Winged Cone. Journal of Guidance, Control, and Dynamics, 2001, 24, 648-658.	1.6	26
74	Analysis and synthesis for linear set-valued dynamically varying systems. , 2000, , .		1
75	A geometric approach to model matching reconfigurable propulsion control. , 2000, , .		3
76	Complex-Analytic Theory of the μ-Function. Journal of Mathematical Analysis and Applications, 1999, 237, 201-239.	0.5	7
77	Real versus Complex Robustness Margin Continuity as a Smooth versus Holomorphic Singularity Problem. Journal of Mathematical Analysis and Applications, 1999, 237, 541-572.	0.5	4
78	From Sioux City to the X-33. Annual Reviews in Control, 1999, 23, 91-108.	4.4	1
79	A Brouwer domain invariance approach to boundary behavior of Nyquist maps for uncertain systems. Mathematics of Control, Signals, and Systems, 1998, 11, 357-371.	1.4	Ο
80	Differential topology of numerical range. Linear Algebra and Its Applications, 1998, 279, 227-254.	0.4	25
81	Simplicial algorithms for computing stationary probabilities of stochastic matrices. Applied Mathematics and Computation, 1998, 93, 207-217.	1.4	0
82	Hâ^ž longitudinal control of crippled trijet aircraft with throttles only. Control Engineering Practice, 1998, 6, 601-613.	3.2	10
83	Bounded flatness in Q-triangulated regular N-simplexes. Applied Mathematics and Computation, 1997, 88, 177-198.	1.4	3
84	Stabilization of chaotic dynamics: a modern control approach. International Journal of Control, 1996, 64, 663-677.	1.2	12
85	Hankel operator and Hâ^ž distance problem over a simply-connected domain. International Journal of Control, 1995, 61, 897-916.	1.2	Ο
86	H â^ž Control of a Nonlinear System using Simplicial Algorithms. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1994, 27, 255-260.	0.4	0
87	The four-block Adamjan-Arov-Krein problem. Journal of Mathematical Analysis and Applications, 1992, 170, 322-342.	0.5	3
88	Chaotic Disturbance Rejection and Bode Limitation. , 1992, , .		7
89	A first principles solution to the nonâ€singular <i>H</i> ^{â^ž} control problem. International Journal of Robust and Nonlinear Control, 1991, 1, 171-185.	2.1	220
90	Multivariable gain margin. International Journal of Control, 1991, 54, 337-365.	1.2	11

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91	Phase margins for multivariable control systems. International Journal of Control, 1990, 52, 485-498.	1.2	50
92	A further simplification to Jury's stability test. IEEE Transactions on Circuits and Systems, 1989, 36, 463-464.	0.9	6
93	Positive and negative solutions of dual Riccati equations by matrix sign function iteration. Systems and Control Letters, 1989, 13, 109-116.	1.3	37
94	Singular filtering problems. Systems and Control Letters, 1989, 13, 339-344.	1.3	17
95	Combined sequence of Markov parameters and moments in linear systems. IEEE Transactions on Automatic Control, 1989, 34, 379-382.	3.6	16
96	Variational calculus for descriptor problems. IEEE Transactions on Automatic Control, 1988, 33, 491-495.	3.6	52
97	Modified Cauer form. Electronics Letters, 1988, 24, 1487.	0.5	0
98	On stochastic model reduction. IEEE Transactions on Automatic Control, 1987, 32, 530-531.	3.6	1
99	Generalization of optimal Hankel-norm and balanced model reduction by bilinear mapping. International Journal of Control, 1987, 45, 1751-1769.	1.2	7
100	L â^ž error bound for the phase matching approximation (the one-step-at-a-time Hankel norm model) Tj ETQq0 0	0 rgBT /C 1:2	Overlock 10 Tf
101	State-space algorithm for multivariable phase matching approximation. , 1987, , .		1
102	Fast computation of achievable feedback performance in mixed sensitivity <tex>H^{a^z}</tex> design. IEEE Transactions on Automatic Control, 1987, 32, 896-906.	3.6	21
103	An L ^{â^ž} error bound for the phase approximation problem. IEEE Transactions on Automatic Control, 1987, 32, 517-518.	3.6	7
104	Characterization of passive systems through their closed-loop LQG characteristic values. IEEE Transactions on Circuits and Systems, 1987, 34, 324-326.	0.9	4
105	Robust Stabilization of a Family of Plants with Varying Number of Right Half Plane Poles. , 1986, , .		19
106	A spectral characterization of Hâ^ž-optimal feedback performance and its efficient computation. Systems and Control Letters, 1986, 8, 13-22.	1.3	44
107	Power spectrum reduction by optimal Hankel norm approximation of the phase of the outer spectral factor. IEEE Transactions on Automatic Control, 1985, 30, 1192-1201.	3.6	44
108	New bound on the sensitivity of the solution of the Lyapunov equation. Linear Algebra and Its Applications, 1984, 60, 57-64.	0.4	19

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109	Lâ^ž-compensation with mixed sensitivity as a broadband matching problem. Systems and Control Letters, 1984, 4, 125-129.	1.3	90
110	Stochastic balancing and approximation-stability and minimality. IEEE Transactions on Automatic Control, 1984, 29, 744-746.	3.6	40
111	Principal component analysis of flexible systemsOpen-loop case. IEEE Transactions on Automatic Control, 1984, 29, 1095-1097.	3.6	67
112	A new set of invariants for linear systemsApplication to reduced order compensator design. IEEE Transactions on Automatic Control, 1983, 28, 953-964.	3.6	251
113	Singular value analysis of deformable systems. Circuits, Systems, and Signal Processing, 1982, 1, 447-470.	1.2	21
114	Inversion of Toeplitz operators, Levinson equations, and Gohberg-Krein factorization—A simple and unified approach for the rational case. Journal of Mathematical Analysis and Applications, 1982, 87, 295-310.	0.5	2
115	On the existence of a negative semidefinite, antistabilizing solution to the discrete-time algebraic Riccati equation. IEEE Transactions on Automatic Control, 1981, 26, 707-712.	3.6	14
116	Spectral theory of the linear-quadratic optimal control problem: A new algorithm for spectral computations. IEEE Transactions on Automatic Control, 1980, 25, 880-888.	3.6	25
117	Spectral theory of the linear-quadratic optimal control problem: Discrete-time single-input case. IEEE Transactions on Circuits and Systems, 1978, 25, 810-825.	0.9	25
118	Tracking Trojan asteroids in periodic and quasi-periodic orbits around the Jupiter Lagrange points using LDV techniques. , 0, , .		3
119	Spectral theory of H/sup â^ž/ filters and smoothers. , 0, , .		0
120	Structural stability of linear dynamically varying (LDV) controllers. , 0, , .		1
121	Linear dynamically varying linear quadratic control of systems with complicated dynamics. , 0, , .		0
122	On the predictability of data network traffic. , 0, , .		8
123	Nonlinear switching dynamics in surface electromyography of the spine. , 0, , .		5