

Airlie Chapman

List of Publications by Year in Descending Order

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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.

41
papers

545
citations

13
h-index

22
g-index

47
ext. papers

690
ext. citations

4.5
avg, IF

4.17
L-index

#	Paper	IF	Citations
41	The impact of graph symmetry on the number of driver nodes in complex networks. <i>Journal of the Franklin Institute</i> , 2021 , 358, 3919-3942	4	1
40	Graph automorphic approaches to the robustness of complex networks. <i>Control Engineering Practice</i> , 2021 , 108, 104705	3.9	1
39	Cyber-Security Constrained Placement of FACTS Devices in Power Networks From a Novel Topological Perspective. <i>IEEE Access</i> , 2020 , 8, 108201-108215	3.5	13
38	A Graph Automorphic Approach for Placement and Sizing of Charging Stations in EV Network Considering Traffic. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 4190-4200	10.7	14
37	A distributed algorithm for UAV-based communication networks using constrained extremum seeking. <i>IFAC-PapersOnLine</i> , 2020 , 53, 5429-5434	0.7	1
36	Robust Placement and Sizing of Charging Stations From a Novel Graph Theoretic Perspective. <i>IEEE Access</i> , 2020 , 8, 118593-118602	3.5	3
35	Exotic states in a simple network of nanoelectromechanical oscillators. <i>Science</i> , 2019 , 363,	33.3	72
34	Constrained extremum seeking of a MIMO dynamic system. <i>Automatica</i> , 2019 , 108, 108496	5.7	4
33	Time-scale Separation on Networks for Multi-City Epidemics 2019 ,		1
32	Time-Scale Separation in Networks: State-Dependent Graphs and Consensus Tracking. <i>IEEE Transactions on Control of Network Systems</i> , 2019 , 6, 104-114	4	9
31	Generalized Graph Product: Spectrum, Trajectories and Controllability 2018 ,		2
30	Efficient Infrastructure Restoration Strategies Using the Recovery Operator. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2017 , 32, 991-1006	8.4	24
29	Data-guided control: Clustering, graph products, and decentralized control 2017 ,		3
28	Online Distributed Convex Optimization on Dynamic Networks. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 3545-3550	5.9	54
27	Multiple time-scales in network-of-networks 2016 ,		4
26	Patterns of patterns of synchronization: Noise induced attractor switching in rings of coupled nonlinear oscillators. <i>Chaos</i> , 2016 , 26, 094816	3.3	14
25	UAV Swarms: Models and Effective Interfaces 2015 , 1987-2019		4

24	State controllability, output controllability and stabilizability of networks: A symmetry perspective 2015,		13
23	Network entropy: A system-theoretic perspective 2015,		9
22	Time-scale separation on networks: Consensus, tracking, and state-dependent interactions 2015,		5
21	Controllability and Observability of Cartesian Product Networks. <i>Springer Theses, 2015, 121-132</i>	0.1	
20	Cartesian Products of Z-matrix Networks: Factorization and Interval Analysis. <i>Springer Theses, 2015, 109-119</i>		
19	Beyond Linear Protocols. <i>Springer Theses, 2015, 17-31</i>	0.1	
18	Measures and Rewiring. <i>Springer Theses, 2015, 35-63</i>	0.1	
17	Network Topology Design for UAV Swarming with Wind Gusts. <i>Springer Theses, 2015, 81-106</i>	0.1	
16	Controllability and Observability of Network-of-Networks via Cartesian Products. <i>IEEE Transactions on Automatic Control, 2014, 59, 2668-2679</i>	5.9	91
15	Online distributed ADMM via dual averaging 2014,		8
14	On symmetry and controllability of multi-agent systems 2014,		18
13	Bearing-compass formation control: A human-swarm interaction perspective 2014,		27
12	Semi-Autonomous Consensus: Network Measures and Adaptive Trees. <i>IEEE Transactions on Automatic Control, 2013, 58, 19-31</i>	5.9	32
11	2013,		5
10	Online distributed optimization via dual averaging 2013,		35
9	Security and Infiltration of Networks: A Structural Controllability and Observability Perspective. <i>Lecture Notes in Control and Information Sciences, 2013, 143-160</i>	0.5	3
8	System Theoretic Aspects of Influenced Consensus: Single Input Case. <i>IEEE Transactions on Automatic Control, 2012, 57, 1505-1511</i>	5.9	10
7	On the controllability and observability of Cartesian product networks 2012,		12

6	Advection on graphs 2011 ,	11
5	Network Topology Design for UAV Swarming with Wind Gusts 2011 ,	3
4	Semi-autonomous networks: Network resilience and adaptive trees 2010 ,	4
3	Semi-autonomous networks: Theory and decentralized protocols 2010 ,	4
2	A protocol for decentralized multi-vehicle mapping with limited communication connectivity 2009 ,	2
1	Transverse characterization of high air-fill fraction tapered photonic crystal fiber. <i>Applied Optics</i> , 2005 , 44, 3885-92	1.7 28