Airlie Chapman

List of Publications by Citations

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	Controllability and Observability of Network-of-Networks via Cartesian Products. *IEEE Transactions on Automatic Control*, **2014**, 59, 2668-2679	5.9	91
40	Exotic states in a simple network of nanoelectromechanical oscillators. *Science*, **2019**, 363,	33.3	72
39	Online Distributed Convex Optimization on Dynamic Networks. *IEEE Transactions on Automatic Control*, **2016**, 61, 3545-3550	5.9	54
38	Online distributed optimization via dual averaging **2013**,		35
37	Semi-Autonomous Consensus: Network Measures and Adaptive Trees. *IEEE Transactions on Automatic Control*, **2013**, 58, 19-31	5.9	32
36	Transverse characterization of high air-fill fraction tapered photonic crystal fiber. *Applied Optics*, **2005**, 44, 3885-92	1.7	28
35	Bearing-compass formation control: A human-swarm interaction perspective **2014**,		27
34	Efficient Infrastructure Restoration Strategies Using the Recovery Operator. *Computer-Aided Civil and Infrastructure Engineering*, **2017**, 32, 991-1006	8.4	24
33	On symmetry and controllability of multi-agent systems **2014**,		18
32	A Graph Automorphic Approach for Placement and Sizing of Charging Stations in EV Network Considering Traffic. *IEEE Transactions on Smart Grid*, **2020**, 11, 4190-4200	10.7	14
31	Patterns of patterns of synchronization: Noise induced attractor switching in rings of coupled nonlinear oscillators. *Chaos*, **2016**, 26, 094816	3.3	14
30	Cyber-Security Constrained Placement of FACTS Devices in Power Networks From a Novel Topological Perspective. *IEEE Access*, **2020**, 8, 108201-108215	3.5	13
29	State controllability, output controllability and stabilizability of networks: A symmetry perspective **2015**,		13
28	On the controllability and observability of Cartesian product networks **2012**,		12
27	Advection on graphs **2011**,		11
26	System Theoretic Aspects of Influenced Consensus: Single Input Case. *IEEE Transactions on Automatic Control*, **2012**, 57, 1505-1511	5.9	10
25	Network entropy: A system-theoretic perspective **2015**,		9

24	Time-Scale Separation in Networks: State-Dependent Graphs and Consensus Tracking. *IEEE Transactions on Control of Network Systems*, **2019**, 6, 104-114	4	9
23	Online distributed ADMM via dual averaging **2014**,		8
22	Time-scale separation on networks: Consensus, tracking, and state-dependent interactions **2015**,		5
21	**2013**,		5
20	UAV Swarms: Models and Effective Interfaces **2015**, 1987-2019		4
19	Constrained extremum seeking of a MIMO dynamic system. *Automatica*, **2019**, 108, 108496	5.7	4
18	Semi-autonomous networks: Network resilience and adaptive trees **2010**,		4
17	Semi-autonomous networks: Theory and decentralized protocols **2010**,		4
16	Multiple time-scales in network-of-networks **2016**,		4
15	Data-guided control: Clustering, graph products, and decentralized control **2017**,		3
14	Network Topology Design for UAV Swarming with Wind Gusts **2011**,		3
13	Security and Infiltration of Networks: A Structural Controllability and Observability Perspective. *Lecture Notes in Control and Information Sciences*, **2013**, 143-160	0.5	3
12	Robust Placement and Sizing of Charging Stations From a Novel Graph Theoretic Perspective. *IEEE Access*, **2020**, 8, 118593-118602	3.5	3
11	A protocol for decentralized multi-vehicle mapping with limited communication connectivity **2009**,		2
10	Generalized Graph Product: Spectrum, Trajectories and Controllability **2018**,		2
9	A distributed algorithm for UAV-based communication networks using constrained extremum seeking. *IFAC-PapersOnLine*, **2020**, 53, 5429-5434	0.7	1
8	The impact of graph symmetry on the number of driver nodes in complex networks. *Journal of the Franklin Institute*, **2021**, 358, 3919-3942	4	1
7	Time-scale Separation on Networks for Multi-City Epidemics **2019**,		1

6	Graph automorphic approaches to the robustness of complex networks. *Control Engineering Practice*, **2021**, 108, 104705	3.9	1
5	Controllability and Observability of Cartesian Product Networks. *Springer Theses*, **2015**, 121-132	0.1	
4	Cartesian Products of Z-matrix Networks: Factorization and Interval Analysis. *Springer Theses*, **2015**, 109-119	0.1	
3	Beyond Linear Protocols. *Springer Theses*, **2015**, 17-31	0.1	
2	Measures and Rewiring. *Springer Theses*, **2015**, 35-63	0.1	
1	Network Topology Design for UAV Swarming with Wind Gusts. *Springer Theses*, **2015**, 81-106	0.1	