

Johan Thunberg

List of Publications by Year in descending order

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49
papers

735
citations

623734

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g-index

56
all docs

56
docs citations

56
times ranked

520
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed attitude synchronization control of multi-agent systems with switching topologies. Automatica, 2014, 50, 832-840.	5.0	117
2	Almost Global Consensus on the S^2 -Sphere. IEEE Transactions on Automatic Control, 2018, 63, 1664-1675.	5.7	83
3	Consensus and formation control on S^2 for switching topologies. Automatica, 2016, 66, 109-121.	5.0	59
4	Vehicle-to-Vehicle Communications for Platooning: Safety Analysis. IEEE Networking Letters, 2019, 1, 168-172.	1.9	40
5	High-dimensional Kuramoto models on Stiefel manifolds synchronize complex networks almost globally. Automatica, 2020, 113, 108736.	5.0	32
6	A solution for multi-alignment by transformation synchronisation. , 2015, , .		31
7	Shape-aware surface reconstruction from sparse 3D point-clouds. Medical Image Analysis, 2017, 38, 77-89.	11.6	31
8	Epipolar Visual Servoing for Multirobot Distributed Consensus. IEEE Transactions on Robotics, 2013, 29, 1212-1225.	10.3	25
9	Distributed attitude synchronization control. , 2011, , .		22
10	A lifting method for analyzing distributed synchronization on the unit sphere. Automatica, 2018, 96, 253-258.	5.0	20
11	Optimal output consensus for linear systems: a topology free approach. Automatica, 2016, 68, 352-356.	5.0	18
12	Finite-Time Attitude Synchronization With Distributed Discontinuous Protocols. IEEE Transactions on Automatic Control, 2018, 63, 3608-3615.	5.7	18
13	A Mixed Integer Linear Programming approach to pursuit evasion problems with optional connectivity constraints. Autonomous Robots, 2011, 31, 333-343.	4.8	16
14	Distributed methods for synchronization of orthogonal matrices over graphs. Automatica, 2017, 80, 243-252.	5.0	16
15	Synchronisation of partial multi-matchings via non-negative factorisations. Pattern Recognition, 2019, 92, 146-155.	8.1	16
16	Safety of Automatic Emergency Braking in Platooning. IEEE Transactions on Vehicular Technology, 2022, 71, 2319-2332.	6.3	16
17	Local Lyapunov Functions for Consensus in Switching Nonlinear Systems. IEEE Transactions on Automatic Control, 2017, 62, 6466-6472.	5.7	14
18	Linear Dynamic Network Reconstruction from Heterogeneous Datasets. IFAC-PapersOnLine, 2017, 50, 10586-10591.	0.9	12

#	ARTICLE	IF	CITATIONS
19	Dynamic controllers for column synchronization of rotation matrices: A QR-factorization approach. Automatica, 2018, 93, 20-25.	5.0	11
20	Vehicle-to-Vehicle Communication for Safe and Fuel-Efficient Platooning. , 2020, , .		11
21	Distributed high-gain attitude synchronization using rotation vectors. Journal of Systems Science and Complexity, 2015, 28, 289-304.	2.8	10
22	Cyber-Physical Systems: A Model-Based Approach. , 2021, , .		10
23	Efficiently Bounding the Probabilities of Vehicle Collision at Intelligent Intersections. IEEE Open Journal of Intelligent Transportation Systems, 2021, 2, 47-59.	4.8	10
24	Multi-robot distributed visual consensus using epipoles. , 2011, , .		9
25	Unreliable V2X Communication in Cooperative Driving: Safety Times for Emergency Braking. IEEE Access, 2021, 9, 148024-148036.	4.2	9
26	Distributed attitude synchronization control of multi-agent systems with directed topologies. , 2012, , .		8
27	An iterative Mixed Integer Linear Programming Approach to pursuit evasion problems in polygonal environments. , 2010, , .		7
28	A boolean control network approach to pursuit evasion problems in polygonal environments. , 2011, , .		7
29	A Comparative Study of Task Assignment and Path Planning Methods for Multi-UGV Missions. Lecture Notes in Control and Information Sciences, 2009, , 167-180.	1.0	7
30	Optimal positioning of surveillance UGVs. , 2008, , .		6
31	Distributed attitude synchronization using backstepping and sliding mode control. Control Theory and Technology, 2014, 12, 48-55.	1.6	6
32	Dynamic network reconstruction from heterogeneous datasets. Automatica, 2021, 123, 109339.	5.0	6
33	Towards Almost Global Synchronization on the Stiefel Manifold. , 2018, , .		5
34	Distributed attitude synchronization control of multi-agent systems with time-varying topologies. , 2012, , .		4
35	Fast correspondences for statistical shape models of brain structures. , 2016, , .		4
36	Emergency Braking With ACC: How Much Does V2V Communication Help?. IEEE Networking Letters, 2022, 4, 157-161.	1.9	4

#	ARTICLE	IF	CITATIONS
37	Analytical solutions to feedback systems on the special orthogonal group $SO(n)$. , 2013, , .		3
38	Towards Optimal Positioning of Surveillance UGVs. Lecture Notes in Control and Information Sciences, 2009, , 221-233.	1.0	3
39	Dynamical Structure Function and Granger Causality: Similarities and differences. , 2015, , .		2
40	IEEE Access Special Section Editorial: Recent Developments in Consensus Problems for Complex Networked Systems. IEEE Access, 2018, 6, 60993-60995.	4.2	2
41	A transformation of the Position Based Visual Servoing Problem into a convex optimization problem. , 2012, , .		1
42	Attitude consensus using networks of uncalibrated cameras. , 2014, , .		1
43	Sound Over-Approximation of Probabilities. Acta Cybernetica, 2020, 24, 269-285.	0.6	1
44	System Aliasing in Dynamic Network Reconstruction: Issues on Low Sampling Frequencies. IEEE Transactions on Automatic Control, 2021, 66, 5788-5801.	5.7	1
45	Integration of sparse electrophysiological measurements with preoperative MRI using 3D surface estimation in deep brain stimulation surgery. Proceedings of SPIE, 2017, , .	0.8	0
46	Network Stability, Realisation and Random Model Generation. , 2019, , .		0
47	Transitively Consistent and Unbiased Multi-Image Registration using Numerically Stable Transformation Synchronisation. , 2015, , .		0
48	Modeling Computational Systems. , 2021, , 79-96.		0
49	Control Theory. , 2021, , 57-78.		0