

Daniel J Stilwell

List of Publications by Citations

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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.

45
papers

1,268
citations

13
h-index

35
g-index

61
ext. papers

1,567
ext. citations

3.5
avg, IF

4.56
L-index

#	Paper	IF	Citations
45	Tracking and formation control of multiple autonomous agents: A two-level consensus approach. <i>Automatica</i> , 2007 , 43, 1318-1328	5.7	254
44	Sufficient Conditions for Fast Switching Synchronization in Time-Varying Network Topologies. <i>SIAM Journal on Applied Dynamical Systems</i> , 2006 , 5, 140-156	2.8	245
43	Consensus Seeking Over Random Weighted Directed Graphs. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 1767-1773	5.9	212
42	Random talk: Random walk and synchronizability in a moving neighborhood network. <i>Physica D: Nonlinear Phenomena</i> , 2006 , 224, 102-113	3.3	101
41	Stability preserving interpolation methods for the synthesis of gain scheduled controllers. <i>Automatica</i> , 2000 , 36, 665-671	5.7	89
40	Robust control for an autonomous underwater vehicle that suppresses pitch and yaw coupling. <i>Ocean Engineering</i> , 2011 , 38, 197-204	3.9	58
39	Nonlinear Estimation With State-Dependent Gaussian Observation Noise. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1358-1366	5.9	34
38	Redundant manipulator techniques for partially decentralized path planning and control of a platoon of autonomous vehicles. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2005 , 35, 842-8		34
37	Implementation of a Cooperative Navigation Algorithm on a Platoon of Autonomous Underwater Vehicles 2007 ,		22
36	Model simplification for AUV pitch-axis control design. <i>Ocean Engineering</i> , 2010 , 37, 638-651	3.9	20
35	State-Space Interpolation for a Gain-Scheduled Autopilot. <i>Journal of Guidance, Control, and Dynamics</i> , 2001 , 24, 460-465	2.1	19
34	Planar flow model identification for improved navigation of small AUVs. <i>Ocean Engineering</i> , 2009 , 36, 119-131	3.9	18
33	Development of a Dynamic Model of a Small High-Speed Autonomous Underwater Vehicle 2006 ,		16
32	\mathcal{L}_2 Gain of Periodic Linear Switched Systems: Fast Switching Behavior. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1632-1637	5.9	13
31	Identification of a simplified AUV pitch axis model for control design: Theory and experiments 2007 ,		13
30	Stability and L_2 gain properties of LPV systems. <i>Automatica</i> , 2002 , 38, 1601-1606	5.7	12
29	Stability and Disturbance Attenuation for Markov Jump Linear Systems with Time-Varying Transition Probabilities. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1413-1418	5.9	10

28	Fast Path Re-planning Based on Fast Marching and Level Sets. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2013 , 71, 303-317	2.9	10
27	Theory and experimental results for the multiple aspect coverage problem. <i>Ocean Engineering</i> , 2012 , 54, 51-60	3.9	9
26	A hybrid receding horizon control method for path planning in uncertain environments 2009 ,		8
25	A solution to the multiple aspect coverage problem 2011 ,		6
24	Efficient computation of level sets for path planning 2009 ,		6
23	A topological map based approach to long range operation of an unmanned surface vehicle 2012 ,		6
22	Stochastic consensus over weighted directed networks. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	6
21	L2 Gain Performance Analysis of Linear Switched Systems: Fast Switching Behavior. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	6
20	A comparison of hydrodynamic damping models using least-squares and adaptive identifier methods for autonomous underwater vehicles 2015 ,		5
19	Boundary Tracking and Rapid Mapping of A Thermal Plume Using an Autonomous Vehicle 2006 ,		4
18	Towards real-time search planning in subsea environments 2017 ,		3
17	Design elements of a small AUV for bathymetric surveys 2014 ,		3
16	Guidance and control of an unmanned surface vehicle exhibiting sternward motion 2012 ,		3
15	Analysis of local observability for feature localization in a maritime environment using an omnidirectional camera 2007 ,		3
14	Hydrodynamic Parameter Estimation for Autonomous Underwater Vehicles. <i>IEEE Journal of Oceanic Engineering</i> , 2020 , 45, 385-394	3.3	3
13	A receding horizon approach to generating dynamically feasible plans for vehicles that operate over large areas 2011 ,		2
12	L2 Gain Performance Analysis of Periodic Linear Switched Systems 2006 ,		2
11	A receding horizon approach to generating dynamically feasible plans for vehicles that operate over large areas 2011 ,		2

10	An approach to subsea survey for safe naval transit 2011 ,		2
9	An H _∞ loop-shaping design procedure for attitude control of an AUV 2016 ,		2
8	A receding horizon controller for motion planning in the presence of moving obstacles 2010 ,		1
7	Design elements of a prototype self-mooring AUV 2010 ,		1
6	Multiple agent coordination for stochastic target interception using MILP 2011 ,		1
5	Multi-agent motion planning using Bayes risk. <i>Robotics and Autonomous Systems</i> , 2016 , 86, 1-12	3.5	1
4	Model-based learning of underwater acoustic communication performance for marine robots. <i>Robotics and Autonomous Systems</i> , 2021 , 142, 103811	3.5	1
3	Increase in Stability of an X-Configured AUV through Hydrodynamic Design Iterations with the Definition of a New Stability Index to Include Effect of Gravity. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 942	2.4	1
2	A Distributed Connectivity Maintenance Algorithm With Formal Guarantees for a Communication-Constrained Network of Unmanned Underwater Vehicles. <i>IEEE Systems Journal</i> , 2021 , 1-12	4.3	0
1	Sampled-data implementation of a gain scheduled controller. <i>International Journal of Robust and Nonlinear Control</i> , 2002 , 12, 855-868	3.6	