

# Daniel J Stilwell

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4985981/daniel-j-stilwell-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	A Distributed Connectivity Maintenance Algorithm With Formal Guarantees for a Communication-Constrained Network of Unmanned Underwater Vehicles. <i>IEEE Systems Journal</i> , <b>2021</b> , 1-12	4.3	0
44	Model-based learning of underwater acoustic communication performance for marine robots. <i>Robotics and Autonomous Systems</i> , <b>2021</b> , 142, 103811	3.5	1
43	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> , <b>2021</b> , 9, 942	2.4	1
42	Hydrodynamic Parameter Estimation for Autonomous Underwater Vehicles. <i>IEEE Journal of Oceanic Engineering</i> , <b>2020</b> , 45, 385-394	3.3	3
41	Towards real-time search planning in subsea environments <b>2017</b> ,		3
40	Stability and Disturbance Attenuation for Markov Jump Linear Systems with Time-Varying Transition Probabilities. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 1413-1418	5.9	10
39	An H <sub>∞</sub> loop-shaping design procedure for attitude control of an AUV <b>2016</b> ,		2
38	Multi-agent motion planning using Bayes risk. <i>Robotics and Autonomous Systems</i> , <b>2016</b> , 86, 1-12	3.5	1
37	A comparison of hydrodynamic damping models using least-squares and adaptive identifier methods for autonomous underwater vehicles <b>2015</b> ,		5
36	Design elements of a small AUV for bathymetric surveys <b>2014</b> ,		3
35	Fast Path Re-planning Based on Fast Marching and Level Sets. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2013</b> , 71, 303-317	2.9	10
34	Theory and experimental results for the multiple aspect coverage problem. <i>Ocean Engineering</i> , <b>2012</b> , 54, 51-60	3.9	9
33	Guidance and control of an unmanned surface vehicle exhibiting sternward motion <b>2012</b> ,		3
32	A topological map based approach to long range operation of an unmanned surface vehicle <b>2012</b> ,		6
31	A solution to the multiple aspect coverage problem <b>2011</b> ,		6
30	Robust control for an autonomous underwater vehicle that suppresses pitch and yaw coupling. <i>Ocean Engineering</i> , <b>2011</b> , 38, 197-204	3.9	58
29	Multiple agent coordination for stochastic target interception using MILP <b>2011</b> ,		1

28	A receding horizon approach to generating dynamically feasible plans for vehicles that operate over large areas <b>2011</b> ,		2
27	A receding horizon approach to generating dynamically feasible plans for vehicles that operate over large areas <b>2011</b> ,		2
26	An approach to subsea survey for safe naval transit <b>2011</b> ,		2
25	A receding horizon controller for motion planning in the presence of moving obstacles <b>2010</b> ,		1
24	Design elements of a prototype self-mooring AUV <b>2010</b> ,		1
23	Nonlinear Estimation With State-Dependent Gaussian Observation Noise. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 1358-1366	5.9	34
22	Model simplification for AUV pitch-axis control design. <i>Ocean Engineering</i> , <b>2010</b> , 37, 638-651	3.9	20
21	A hybrid receding horizon control method for path planning in uncertain environments <b>2009</b> ,		8
20	Efficient computation of level sets for path planning <b>2009</b> ,		6
19	Planar flow model identification for improved navigation of small AUVs. <i>Ocean Engineering</i> , <b>2009</b> , 36, 119-131	3.9	18
18	$\mathcal{L}_2$ Gain of Periodic Linear Switched Systems: Fast Switching Behavior. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 1632-1637	5.9	13
17	Stochastic consensus over weighted directed networks. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	6
16	Tracking and formation control of multiple autonomous agents: A two-level consensus approach. <i>Automatica</i> , <b>2007</b> , 43, 1318-1328	5.7	254
15	Identification of a simplified AUV pitch axis model for control design: Theory and experiments <b>2007</b> ,		13
14	$\mathcal{L}_2$ Gain Performance Analysis of Linear Switched Systems: Fast Switching Behavior. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	6
13	Implementation of a Cooperative Navigation Algorithm on a Platoon of Autonomous Underwater Vehicles <b>2007</b> ,		22
12	Analysis of local observability for feature localization in a maritime environment using an omnidirectional camera <b>2007</b> ,		3
11	Consensus Seeking Over Random Weighted Directed Graphs. <i>IEEE Transactions on Automatic Control</i> , <b>2007</b> , 52, 1767-1773	5.9	212

10	Random talk: Random walk and synchronizability in a moving neighborhood network. <i>Physica D: Nonlinear Phenomena</i> , <b>2006</b> , 224, 102-113	3.3	101
9	L2 Gain Performance Analysis of Periodic Linear Switched Systems <b>2006</b> ,		2
8	Boundary Tracking and Rapid Mapping of A Thermal Plume Using an Autonomous Vehicle <b>2006</b> ,		4
7	Sufficient Conditions for Fast Switching Synchronization in Time-Varying Network Topologies. <i>SIAM Journal on Applied Dynamical Systems</i> , <b>2006</b> , 5, 140-156	2.8	245
6	Development of a Dynamic Model of a Small High-Speed Autonomous Underwater Vehicle <b>2006</b> ,		16
5	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> , <b>2005</b> , 35, 842-8		34
4	Sampled-data implementation of a gain scheduled controller. <i>International Journal of Robust and Nonlinear Control</i> , <b>2002</b> , 12, 855-868	3.6	
3	Stability and L2 gain properties of LPV systems. <i>Automatica</i> , <b>2002</b> , 38, 1601-1606	5.7	12
2	State-Space Interpolation for a Gain-Scheduled Autopilot. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2001</b> , 24, 460-465	2.1	19
1	Stability preserving interpolation methods for the synthesis of gain scheduled controllers. <i>Automatica</i> , <b>2000</b> , 36, 665-671	5.7	89