

# Kristin Y Pettersen

## List of Publications by Year in descending order

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35  
papers

1,651  
citations

840119

11  
h-index

794141

19  
g-index

35  
all docs

35  
docs citations

35  
times ranked

801  
citing authors

#	ARTICLE	IF	CITATIONS
1	Line-of-Sight Path Following for Dubins Paths With Adaptive Sideslip Compensation of Drift Forces. IEEE Transactions on Control Systems Technology, 2015, 23, 820-827.	3.2	383
2	Integral Line-of-Sight Guidance and Control of Underactuated Marine Vehicles: Theory, Simulations, and Experiments. IEEE Transactions on Control Systems Technology, 2016, 24, 1623-1642.	3.2	226
3	On uniform semiglobal exponential stability (USGES) of proportional line-of-sight guidance laws. Automatica, 2014, 50, 2912-2917.	3.0	201
4	Integral LOS control for path following of underactuated marine surface vessels in the presence of constant ocean currents. , 2008, , .		164
5	Model-Based Output Feedback Control of Slender-Body Underactuated AUVs: Theory and Experiments. IEEE Transactions on Control Systems Technology, 2008, 16, 930-946.	3.2	117
6	3-D Snake Robot Motion: Nonsmooth Modeling, Simulations, and Experiments. IEEE Transactions on Robotics, 2008, 24, 361-376.	7.3	79
7	Observer based path following for underactuated marine vessels in the presence of ocean currents: A global approach. Automatica, 2019, 100, 123-134.	3.0	64
8	Path following of underactuated autonomous underwater vehicles in the presence of ocean currents. , 2012, , .		44
9	Relative Velocity Control and Integral LOS for Path Following of Underactuated Surface Vessels. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 380-385.	0.4	37
10	Integral LOS guidance for horizontal path following of underactuated autonomous underwater vehicles in the presence of vertical ocean currents. , 2012, , .		33
11	Line-of-sight curved path following for underactuated USVs and AUVs in the horizontal plane under the influence of ocean currents. , 2016, , .		29
12	Modelling and control of obstacle-aided snake robot locomotion based on jam resolution. , 2009, , .		28
13	Straight line path following for formations of underactuated underwater vehicles. , 2007, , .		25
14	Lyapunov sufficient conditions for uniform semiglobal exponential stability. Automatica, 2017, 78, 97-102.	3.0	22
15	A Comparison Between the ILOS Guidance and the Vector Field Guidance. IFAC-PapersOnLine, 2015, 48, 89-94.	0.5	20
16	ILOS Guidance - Experiments and Tuning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4209-4214.	0.4	19
17	Set-Based line-of-sight (LOS) path following with collision avoidance for underactuated unmanned surface vessels under the influence of ocean currents. , 2017, , .		15
18	Autonomous ROV Inspections of Aquaculture Net Pens Using DVL. IEEE Journal of Oceanic Engineering, 2021, , 1-19.	2.1	15

#	ARTICLE	IF	CITATIONS
19	A snake robot joint mechanism with a contact force measurement system. , 2009, , .		13
20	A 6 DOF nonlinear observer for auvs with experimental results. , 2007, , .		12
21	Formation path following control of underactuated USVs. European Journal of Control, 2021, 62, 171-184.	1.6	12
22	A 3D reactive collision avoidance algorithm for underactuated underwater vehicles. Journal of Field Robotics, 2020, 37, 1094-1122.	3.2	11
23	Topics on Current Compensation for Path Following Applications of Underactuated Underwater Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 184-191.	0.4	10
24	A hybrid approach to underwater docking of AUVs with cross-current. , 2016, , .		10
25	Output feedback control of an AUV with experimental results. , 2007, , .		9
26	Uniform Semiglobal Exponential Stability of Integral Line-of-Sight Guidance Laws—This work was partly supported by the Research Council of Norway through the Centres of Excellence funding scheme, project no. 223254 - AMOS. IFAC-PapersOnLine, 2015, 48, 61-68.	0.5	9
27	Set-based collision avoidance applications to robotic systems. Mechatronics, 2020, 69, 102399.	2.0	9
28	Geometric path following with ocean current estimation for ASVs and AUVs. , 2016, , .		8
29	Path following of marine surface vessels with saturated transverse actuators. , 2013, , .		7
30	Path Following of Underactuated Surface Vessels in Presence of Unknown Constant Environmental Forces: Preliminary Results. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 85-90.	0.4	7
31	Integral Line-of-Sight Guidance of Underwater Vehicles Without Neutral Buoyancy**This work was partly supported by the Research Council of Norway through the Centres of Excellence funding scheme, project no. 223254 - NTNU AMOS. IFAC-PapersOnLine, 2016, 49, 590-597.	0.5	5
32	Semiglobal Exponential Stability of a Counter-Current and Co-Current Guidance Scheme. IFAC-PapersOnLine, 2018, 51, 274-280.	0.5	4
33	Reactive Collision Avoidance for Underactuated Surface Vehicles using the Collision Cone Concept. , 2021, , .		2
34	An Integral Line-of-Sight Guidance Law with a Speed-dependent Lookahead Distance. , 2018, , .		1
35	Guidance of Autonomous Underwater Vehicles. , 2018, , 1-10.		1