Dongsik Chang

List of Publications by Year
in descending order

17 papers	193 citations	1307594 7 h-index	1372567 10 g-index
19 all docs	19 docs citations	19 times ranked	156 citing authors

#	Article	IF	Citations
1	Real-Time Guidance of Underwater Gliders Assisted by Predictive Ocean Models. Journal of Atmospheric and Oceanic Technology, 2015, 32, 562-578.	1.3	47
2	Motion tomography: Mapping flow fields using autonomous underwater vehicles. International Journal of Robotics Research, 2017, 36, 320-336.	8.5	32
3	Real-time Modelling of Tidal Current for Navigating Underwater Glider Sensing Networks. Procedia Computer Science, 2012, 10, 1121-1126.	2.0	16
4	Glider CT. , 2013, , .		12
5	Energy-Optimal Control for Autonomous Underwater Vehicles Using Economic Model Predictive Control. IEEE Transactions on Control Systems Technology, 2022, 30, 2377-2390.	5.2	11
6	An Active Perception Framework for Autonomous Underwater Vehicle Navigation Under Sensor Constraints. IEEE Transactions on Control Systems Technology, 2022, 30, 2301-2316.	5.2	8
7	A data assimilation framework for data-driven flow models enabled by motion tomography. International Journal of Intelligent Robotics and Applications, 2019, 3, 158-177.	2.8	7
8	Robust Energy-optimal Path Following Control for Autonomous Underwater Vehicles in Ocean Currents. , 2020, , .		7
9	A bio-inspired plume tracking algorithm for mobile sensing swarms in turbulent flow. , 2013, , .		6
10	Energy Management for Autonomous Underwater Vehicles using Economic Model Predictive Control. , 2019, , .		6
11	A bio-inspired robust 3D plume tracking strategy using mobile sensor networks. , 2013, , .		5
12	Distributed Motion Tomography for Reconstruction of Flow Fields. , 2019, , .		4
13	Distributed motion tomography for time-varying flow fields. , 2016, , .		3
14	Resolving Temporal Variations in Data-Driven Flow Models Constructed by Motion Tomography**The research work is supported by ONR grants N00014-10-10712 (YIP) and N00014-14-1-0635; and NSF grants OCE-1032285, IIS-1319874, and CMMI-1436284.. IFAC-PapersOnLine, 2016, 49, 182-187.	0.9	2
15	An Active Perception Approach for Mid-Water Localization of Autonomous Underwater Vehicles. , 2020, , .		2
16	Motion tomography via occupation kernels. Journal of Computational Dynamics, 2022, 9, 27.	1.1	2
17	Diagnosis and prognosis of scrubber faults for underwater rebreathers based on stochastic event models. , 2011, , .		0