

# Haomin Zhou

## List of Publications by Year in descending order

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26  
papers

579  
citations

1307594

7  
h-index

752698

20  
g-index

26  
all docs

26  
docs citations

26  
times ranked

366  
citing authors

#	ARTICLE	IF	CITATIONS
1	ITERATIVE FILTERING AS AN ALTERNATIVE ALGORITHM FOR EMPIRICAL MODE DECOMPOSITION. <i>Advances in Adaptive Data Analysis</i> , 2009, 01, 543-560.	0.6	167
2	Weak adversarial networks for high-dimensional partial differential equations. <i>Journal of Computational Physics</i> , 2020, 411, 109409.	3.8	138
3	Fokker-Planck Equations for a Free Energy Functional or Markov Process on a Graph. <i>Archive for Rational Mechanics and Analysis</i> , 2012, 203, 969-1008.	2.4	101
4	Numerical analysis for iterative filtering with new efficient implementations based on FFT. <i>Numerische Mathematik</i> , 2021, 147, 1-28.	1.9	41
5	Multidimensional Iterative Filtering Method for the Decomposition of High-Dimensional Non-Stationary Signals. <i>Numerical Mathematics</i> , 2017, 10, 278-298.	1.3	27
6	Entropy dissipation of Fokker-Planck equations on graphs. <i>Discrete and Continuous Dynamical Systems</i> , 2018, 38, 4929-4950.	0.9	26
7	Numerical solution of inverse problems by weak adversarial networks. <i>Inverse Problems</i> , 2020, 36, 115003.	2.0	25
8	Wasserstein Hamiltonian flows. <i>Journal of Differential Equations</i> , 2020, 268, 1205-1219.	2.2	8
9	Bounded Cost Path Planning for Underwater Vehicles Assisted by a Time-Invariant Partitioned Flow Field Model. <i>Frontiers in Robotics and AI</i> , 2021, 8, 575267.	3.2	8
10	Entropy Dissipation Semi-Discretization Schemes for Fokker-Planck Equations. <i>Journal of Dynamics and Differential Equations</i> , 2019, 31, 765-792.	1.9	7
11	Shortest paths through 3-dimensional cluttered environments. , 2014, , .		6
12	A Weak Galerkin Finite Element Method for a Type of Fourth Order Problem Arising from Fluorescence Tomography. <i>Journal of Scientific Computing</i> , 2017, 71, 897-918.	2.3	6
13	Closed-Form Relations for Resonance Detection Error Using Statistical Analysis of Amplitude Noise. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015, 21, 419-426.	2.9	5
14	Collective Motion Planning for a Group of Robots Using Intermittent Diffusion. <i>Journal of Scientific Computing</i> , 2022, 90, 1.	2.3	3
15	Equilibrium Selection via Optimal Transport. <i>SIAM Journal on Applied Mathematics</i> , 2020, 80, 142-159.	1.8	2
16	A Newton-like algorithm for the shortest path based on the method of evolving junctions. <i>Communications in Mathematical Sciences</i> , 2016, 14, 1169-1180.	1.0	2
17	Path Exploration in Unknown Environments Using Fokker-Planck Equation on Graph. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2022, 104, 1.	3.4	2
18	A free energy based mathematical study for molecular motors. <i>Regular and Chaotic Dynamics</i> , 2011, 16, 117-127.	0.8	1

#	ARTICLE	IF	CITATIONS
19	Potential induced random teleportation on finite graphs. Computational Optimization and Applications, 2015, 61, 689-711.	1.6	1
20	Dynamical Schrödinger Bridge Problems on Graphs. Journal of Dynamics and Differential Equations, 2022, 34, 2511-2530.	1.9	1
21	Optimal Transport on Networks. IEEE Control Systems, 2021, 41, 70-81.	0.8	1
22	Belief Space Partitioning for Symbolic Motion Planning. , 2021, , .		1
23	An improved color image demosaicking algorithm. , 2012, , .		0
24	Dynamics of Nonlinear Systems. Scientific World Journal, The, 2014, 2014, 1-1.	2.1	0
25	Double descent and intermittent color diffusion for landscape exploration. Numerical Algorithms, 2020, 85, 145-169.	1.9	0
26	A jump stochastic differential equation approach for influence prediction on heterogeneous networks. Communications in Mathematical Sciences, 2020, 18, 2341-2359.	1.0	0