Cristian Huepe

List of Publications by Year
in descending order

38	2,490	331670	361022
papers	citations	21	35
		h-index	g-index

40	40	40	1967
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental capabilities and limitations of a position-based control algorithm for swarm robotics. Adaptive Behavior, 2022, 30, 19-35.	1.9	9
2	Contagion dynamics in self-organized systems of self-propelled agents. Scientific Reports, 2022, 12, 2588.	3.3	12
3	Order–disorder transitions in a minimal model of active elasticity. New Journal of Physics, 2021, 23, 023019.	2.9	6
4	Phases and homogeneous ordered states in alignment-based self-propelled particle models. Physical Review E, 2021, 104, 044605.	2.1	6
5	Interaction network effects on position- and velocity-based models of collective motion. Journal of the Royal Society Interface, 2020, 17, 20200165.	3.4	5
6	Modular hierarchical and power-law small-world networks bear structural optima for minimal first passage times and cover time. Journal of Complex Networks, 2019, 7, 865-895.	1.8	6
7	Scale invariance in natural and artificial collective systems: a review. Journal of the Royal Society Interface, 2017, 14, 20170662.	3.4	46
8	Adaptive network models of collective decision making in swarming systems. Physical Review E, 2016, 94, 022415.	2.1	10
9	Scale-Free Correlations in Flocking Systems with Position-Based Interactions. Journal of Statistical Physics, 2015, 158, 549-562.	1.2	17
10	Elasticity-Based Mechanism for the Collective Motion of Self-Propelled Particles with Springlike Interactions: A Model System for Natural and Artificial Swarms. Physical Review Letters, 2013, 111, 268302.	7.8	96
11	Collective motion dynamics of active solids and active crystals. New Journal of Physics, 2013, 15, 095011.	2.9	35
12	Collective States, Multistability and Transitional Behavior in Schooling Fish. PLoS Computational Biology, 2013, 9, e1002915.	3.2	319
13	Collective dynamics of self-propelled particles with variable speed. Physical Review E, 2012, 86, 011901.	2.1	77
14	Early fragmentation in the adaptive voter model on directed networks. Physical Review E, 2012, 85, 046107.	2.1	42
15	Self-organized flocking with a mobile robot swarm: a novel motion control method. Adaptive Behavior, 2012, 20, 460-477.	1.9	129
16	Generating music from flocking dynamics. , 2012, , .		4
17	Inferring the structure and dynamics of interactions in schooling fish. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18720-18725.	7.1	719
18	Adaptive-network models of swarm dynamics. New Journal of Physics, 2011, 13, 073022.	2.9	65

#	Article	IF	Citations
19	New tools for characterizing swarming systems: A comparison of minimal models. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 2809-2822.	2.6	55
20	Intrinsic and extrinsic noise effects on phase transitions of network models with applications to swarming systems. Physical Review E, 2008, 77, 061138.	2.1	48
21	Modeling Phase Transition in Self-organized Mobile Robot Flocks. Lecture Notes in Computer Science, 2008, , 108-119.	1.3	7
22	Flocking with informed agents. MathematicS in Action, 2008, 1, 1-25.	0.6	66
23	Phase Transitions in Systems of Self-Propelled Agents and Related Network Models. Physical Review Letters, 2007, 98, 095702.	7.8	185
24	Forcing function control of Faraday wave instabilities in viscous shallow fluids. Physical Review E, 2006, 73, 016310.	2.1	19
25	Intermittency and Clustering in a System of Self-Driven Particles. Physical Review Letters, 2004, 92, 168701.	7.8	97
26	Statistics of defect trajectories in spatio-temporal chaos in inclined layer convection and the complex Ginzburg–Landau equation. Chaos, 2004, 14, 864-874.	2.5	14
27	Numerical methods for bifurcation problems. Nonlinear Phenomena and Complex Systems, 2004, , 75-83.	0.0	2
28	Bifurcations in Attractive Bose-Einstein Condensates and Superfluid Helium. Nonlinear Phenomena and Complex Systems, 2004, , 43-68.	0.0	0
29	Title is missing!. Journal of Statistical Physics, 2003, 112, 135-153.	1.2	91
30	Gross–Pitaevskii dynamics of Bose–Einstein condensates and superfluid turbulence. Fluid Dynamics Research, 2003, 33, 509-544.	1.3	45
31	Stability and decay rates of nonisotropic attractive Bose-Einstein condensates. Physical Review A, 2003, 68, .	2.5	41
32	Dynamics of the convergence towards a self-similar blowup solution in a simplified model of aggregation. Nonlinearity, 2002, 15, 1699-1715.	1.4	0
33	Dynamical Phase Transition in a Neural Network Model with Noise: An Exact Solution. Journal of Statistical Physics, 2002, 108, 527-540.	1.2	27
34	Transition to Dissipation in Two- and Three-Dimensional Superflows. , 2001, , 297-304.		0
35	Generic inflationary and noninflationary behavior in toy-cosmology. Physica D: Nonlinear Phenomena, 2000, 144, 20-36.	2.8	3
36	Scaling laws for vortical nucleation solutions in a model of superflow. Physica D: Nonlinear Phenomena, 2000, 140, 126-140.	2.8	53

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37	Subcritical Dissipation in Three-Dimensional Superflows. Physical Review Letters, 2000, 84, 2191-2194.	7.8	40
38	Decay Rates in Attractive Bose-Einstein Condensates. Physical Review Letters, 1999, 82, 1616-1619.	7.8	83