Daniel StrÃ¶mbom

List of Publications by Year
in descending order

16 papers	510 citations	932766 10 h-index	996533 15 g-index
17 all docs	17 docs citations	17 times ranked	681 citing authors

#	Article	IF	Citations
1	Solving the shepherding problem: heuristics for herding autonomous, interacting agents. Journal of the Royal Society Interface, 2014, 11, 20140719.	1.5	140
2	Collective motion from local attraction. Journal of Theoretical Biology, 2011, 283, 145-151.	0.8	123
3	Proto-cooperation: group hunting sailfish improve hunting success by alternating attacks on grouping prey. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20161671.	1.2	85
4	Multi-scale Inference of Interaction Rules in Animal Groups Using Bayesian Model Selection. PLoS Computational Biology, 2013, 9, e1002961.	1.5	39
5	Injury-mediated decrease in locomotor performance increases predation risk in schooling fish. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160232.	1.8	28
6	Self-organized traffic via priority rules in leaf-cutting ants. PLoS Computational Biology, 2018, 14, e1006523.	1.5	17
7	Robot Collection and Transport of Objects: A Biomimetic Process. Frontiers in Robotics and AI, 2018, 5, 48.	2.0	16
8	Asynchrony induces polarization in attraction-based models of collective motion. Royal Society Open Science, 2019, 6, 190381.	1.1	14
9	The shape and dynamics of local attraction. European Physical Journal: Special Topics, 2015, 224, 3311-3323.	1.2	11
10	Simulating Irrational Human Behavior to Prevent Resource Depletion. PLoS ONE, 2015, 10, e0117612.	1.1	11
11	Multi-scale Inference of Interaction Rules in Animal Groups Using Bayesian Model Selection. PLoS Computational Biology, 2012, 8, e1002308.	1.5	10
12	Modeling the life cycle of the spotted lanternfly (Lycorma delicatula) with management implications. Mathematical Biosciences, 2021, 340, 108670.	0.9	5
13	Attraction vs. Alignment as Drivers of Collective Motion. Frontiers in Applied Mathematics and Statistics, 2022, 7, .	0.7	5
14	Anticipation Induces Polarized Collective Motion in Attraction Based Models. Northeast Journal of Complex Systems, 2021, 3, .	0.2	4
15	Bistability and Switching Behavior in Moving Animal Groups. Northeast Journal of Complex Systems, 2022, 4, .	0.2	1
16	Prawns and probability. , 2012, , .		0