

# Eric Bonabeau

## List of Publications by Year in descending order

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45  
papers

8,311  
citations

279798

23  
h-index

302126

39  
g-index

45  
all docs

45  
docs citations

45  
times ranked

4750  
citing authors

#	ARTICLE	IF	CITATIONS
1	Swarm Intelligence. , 1999, , .		4,417
2	Ant algorithms and stigmergy. Future Generation Computer Systems, 2000, 16, 851-871.	7.5	691
3	Self-organization in social insects. Trends in Ecology and Evolution, 1997, 12, 188-193.	8.7	534
4	A Brief History of Stigmergy. Artificial Life, 1999, 5, 97-116.	1.3	494
5	Cooperative transport by ants and robots. Robotics and Autonomous Systems, 2000, 30, 85-101.	5.1	327
6	Fixed Response Thresholds and the Regulation of Division of Labor in Insect Societies. Bulletin of Mathematical Biology, 1998, 60, 753-807.	1.9	196
7	Spatial patterns in ant colonies. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9645-9649.	7.1	195
8	Modelling the Collective Building of Complex Architectures in Social Insects with Lattice Swarms. Journal of Theoretical Biology, 1995, 177, 381-400.	1.7	132
9	Social Insect Colonies as Complex Adaptive Systems. Ecosystems, 1998, 1, 437-443.	3.4	102
10	Phase diagram of a model of self-organizing hierarchies. Physica A: Statistical Mechanics and Its Applications, 1995, 217, 373-392.	2.6	98
11	Dynamic Scheduling and Division of Labor in Social Insects. Adaptive Behavior, 2000, 8, 83-95.	1.9	95
12	The origin of nest complexity in social insects. Complexity, 1998, 3, 15-25.	1.6	85
13	Routing in telecommunications networks with ant-like agents. Lecture Notes in Computer Science, 1998, , 60-71.	1.3	78
14	From Classical Models of Morphogenesis to Agent-Based Models of Pattern Formation. Artificial Life, 1997, 3, 191-211.	1.3	74
15	Dominance Orders in Animal Societies: The Self-organization Hypothesis Revisited. Bulletin of Mathematical Biology, 1999, 61, 727-757.	1.9	74
16	Mathematical model of self-organizing hierarchies in animal societies. Bulletin of Mathematical Biology, 1996, 58, 661-717.	1.9	73
17	Three-dimensional architectures grown by simple "stigmergic" agents. BioSystems, 2000, 56, 13-32.	2.0	72
18	Possible universality in the size distribution of fish schools. Physical Review E, 1995, 51, R5220-R5223.	2.1	71

#	ARTICLE	IF	CITATIONS
19	Decision making dynamics in corporate boards. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 322, 567-582.	2.6	67
20	Self-organization of hierarchies in animal societies: the case of the primitively eusocial wasp <i>Polistes dominulus</i> Christ. <i>Journal of Theoretical Biology</i> , 1995, 174, 313-323.	1.7	55
21	Pattern Formation and Optimization in Army Ant Raids. <i>Artificial Life</i> , 2000, 6, 219-226.	1.3	42
22	Model of Droplet Dynamics in the Argentine Ant <i>Linepithema Humile</i> (Mayr). <i>Bulletin of Mathematical Biology</i> , 2001, 63, 1079-1093.	1.9	38
23	Swarm Intelligence. , 2012, , 1599-1622.		30
24	The mechanisms and rules of coordinated building in social insects. , 1999, , 309-330.		28
25	Phase-ordering kinetics of cemetery organization in ants. <i>Physical Review E</i> , 1998, 57, 4568-4571.	2.1	27
26	Mathematical model of self-organizing hierarchies in animal societies. <i>Bulletin of Mathematical Biology</i> , 1996, 58, 661-717.	1.9	26
27	Self-organizing maps for drawing large graphs. <i>Information Processing Letters</i> , 1998, 67, 177-184.	0.6	25
28	Role and variability of response thresholds in the regulation of division of labor in insect societies. , 1999, , 141-163.		24
29	Dripping faucet with ants. <i>Physical Review E</i> , 1998, 57, 5904-5907.	2.1	22
30	DECISION SPREAD IN THE CORPORATE BOARD NETWORK. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2003, 06, 631-644.	1.4	22
31	The synchronization of recruitment-based activities in ants. <i>BioSystems</i> , 1998, 45, 195-211.	2.0	20
32	Task Partitioning in a Ponerine Ant. <i>Journal of Theoretical Biology</i> , 2002, 215, 481-489.	1.7	17
33	Graph multidimensional scaling with self-organizing maps. <i>Information Sciences</i> , 2002, 143, 159-180.	6.9	17
34	Marginally Stable Swarms Are Flexible and Efficient. <i>Journal De Physique, I</i> , 1996, 6, 309-324.	1.2	9
35	Some consequences of flux avalanches in type-II superconductors. <i>Physical Review B</i> , 1995, 52, 494-505.	3.2	8
36	On the effective activation energy due to flux avalanches in the Bean state. <i>Physica C: Superconductivity and Its Applications</i> , 1996, 256, 365-370.	1.2	6

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37	Monte Carlo Simulations of a Disordered Lattice London Model. <i>Physical Review Letters</i> , 1996, 77, 5122-5125.	7.8	6
38	Self-reorganizations in a simple model of the immune system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 208, 336-350.	2.6	4
39	Sandpile representation of the Bean state. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 2917-2918.	1.2	3
40	Monte Carlo study of weakly pinned vortices with vortex loop fluctuations. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 2647-2648.	1.2	2
41	A simple model for the statistics of events in idiotypic networks. <i>BioSystems</i> , 1996, 39, 25-34.	2.0	2
42	Exploratory Data Analysis with Interactive Evolution. <i>Lecture Notes in Computer Science</i> , 2004, , 1151-1161.	1.3	2
43	Order of the vortex lattice melting transition in a type-II superconductor as a function of magnetic field. <i>Journal of Physics Condensed Matter</i> , 1996, 8, L469-L473.	1.8	1
44	Monte Carlo simulations of intrinsically pinned vortices in layered superconductors. <i>Journal of Physics Condensed Matter</i> , 1997, 9, L607-L612.	1.8	0
45	MÃ©moire collective chez les insectes sociaux. , 1999, , 141-165.		0