

Dirk Helbing

List of Publications by Year in descending order

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184
papers

38,888
citations

10986
71
h-index

10445
139
g-index

188
all docs

188
docs citations

188
times ranked

17823
citing authors

#	ARTICLE	IF	CITATIONS
1	Social force model for pedestrian dynamics. Physical Review E, 1995, 51, 4282-4286.	2.1	4,449
2	Simulating dynamical features of escape panic. Nature, 2000, 407, 487-490.	27.8	3,857
3	Congested traffic states in empirical observations and microscopic simulations. Physical Review E, 2000, 62, 1805-1824.	2.1	2,876
4	Traffic and related self-driven many-particle systems. Reviews of Modern Physics, 2001, 73, 1067-1141.	45.6	2,746
5	Growth, innovation, scaling, and the pace of life in cities. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7301-7306.	7.1	1,917
6	Self-Organized Pedestrian Crowd Dynamics: Experiments, Simulations, and Design Solutions. Transportation Science, 2005, 39, 1-24.	4.4	1,168
7	Generalized force model of traffic dynamics. Physical Review E, 1998, 58, 133-138.	2.1	958
8	The Hidden Geometry of Complex, Network-Driven Contagion Phenomena. Science, 2013, 342, 1337-1342.	12.6	941
9	How simple rules determine pedestrian behavior and crowd disasters. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6884-6888.	7.1	867
10	Globally networked risks and how to respond. Nature, 2013, 497, 51-59.	27.8	862
11	Dynamics of crowd disasters: An empirical study. Physical Review E, 2007, 75, 046109.	2.1	842
12	General Lane-Changing Model MOBIL for Car-Following Models. Transportation Research Record, 2007, 1999, 86-94.	1.9	802
13	The Walking Behaviour of Pedestrian Social Groups and Its Impact on Crowd Dynamics. PLoS ONE, 2010, 5, e10047.	2.5	765
14	How social influence can undermine the wisdom of crowd effect. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9020-9025.	7.1	751
15	Enhanced intelligent driver model to assess the impact of driving strategies on traffic capacity. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 4585-4605.	3.4	600
16	Self-Organizing Pedestrian Movement. Environment and Planning B: Planning and Design, 2001, 28, 361-383.	1.7	561
17	Adaptive cruise control design for active congestion avoidance. Transportation Research Part C: Emerging Technologies, 2008, 16, 668-683.	7.6	470
18	Saving Human Lives: What Complexity Science and Information Systems can Contribute. Journal of Statistical Physics, 2015, 158, 735-781.	1.2	467

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19	The outbreak of cooperation among success-driven individuals under noisy conditions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3680-3685.	7.1	459
20	Freezing by Heating in a Driven Mesoscopic System. Physical Review Letters, 2000, 84, 1240-1243.	7.8	425
21	Delays, inaccuracies and anticipation in microscopic traffic models. Physica A: Statistical Mechanics and Its Applications, 2006, 360, 71-88.	2.6	425
22	SPECIFICATION OF THE SOCIAL FORCE PEDESTRIAN MODEL BY EVOLUTIONARY ADJUSTMENT TO VIDEO TRACKING DATA. International Journal of Modeling, Simulation, and Scientific Computing, 2007, 10, 271-288.	1.4	384
23	Experimental study of the behavioural mechanisms underlying self-organization in human crowds. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 2755-2762.	2.6	377
24	Punish, but not too hard: how costly punishment spreads in the spatial public goods game. New Journal of Physics, 2010, 12, 083005.	2.9	314
25	Derivation, properties, and simulation of a gas-kinetic-based, nonlocal traffic model. Physical Review E, 1999, 59, 239-253.	2.1	308
26	Optimal traffic organization in ants under crowded conditions. Nature, 2004, 428, 70-73.	27.8	308
27	Modelling the evolution of human trail systems. Nature, 1997, 388, 47-50.	27.8	304
28	Scaling laws in the spatial structure of urban road networks. Physica A: Statistical Mechanics and Its Applications, 2006, 363, 89-95.	2.6	304
29	Evolutionary Establishment of Moral and Double Moral Standards through Spatial Interactions. PLoS Computational Biology, 2010, 6, e1000758.	3.2	294
30	Gas-Kinetic-Based Traffic Model Explaining Observed Hysteretic Phase Transition. Physical Review Letters, 1998, 81, 3042-3045.	7.8	287
31	Lattice gas simulation of experimentally studied evacuation dynamics. Physical Review E, 2003, 67, 067101.	2.1	280
32	FROM CROWD DYNAMICS TO CROWD SAFETY: A VIDEO-BASED ANALYSIS. International Journal of Modeling, Simulation, and Scientific Computing, 2008, 11, 497-527.	1.4	259
33	A mathematical model for the behavior of pedestrians. Systems Research and Behavioral Science, 1991, 36, 298-310.	0.2	258
34	Gas-kinetic derivation of Navier-Stokes-like traffic equations. Physical Review E, 1996, 53, 2366-2381.	2.1	247
35	Crowd disasters as systemic failures: analysis of the Love Parade disaster. EPJ Data Science, 2012, 1, .	2.8	245
36	Phase Diagram of Traffic States in the Presence of Inhomogeneities. Physical Review Letters, 1999, 82, 4360-4363.	7.8	244

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37	Active walker model for the formation of human and animal trail systems. Physical Review E, 1997, 56, 2527-2539.	2.1	213
38	Self-control of traffic lights and vehicle flows in urban road networks. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P04019.	2.3	212
39	Empirical Features of Congested Traffic States and Their Implications for Traffic Modeling. Transportation Science, 2007, 41, 135-166.	4.4	210
40	Transient Dynamics Increasing Network Vulnerability to Cascading Failures. Physical Review Letters, 2008, 100, 218701.	7.8	201
41	MASTER: macroscopic traffic simulation based on a gas-kinetic, non-local traffic model. Transportation Research Part B: Methodological, 2001, 35, 183-211.	5.9	188
42	Molecular crowding creates traffic jams of kinesin motors on microtubules. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6100-6105.	7.1	186
43	Coherent moving states in highway traffic. Nature, 1998, 396, 738-740.	27.8	176
44	Quantifying the Behavior of Stock Correlations Under Market Stress. Scientific Reports, 2012, 2, 752.	3.3	164
45	Improved fluid-dynamic model for vehicular traffic. Physical Review E, 1995, 51, 3164-3169.	2.1	161
46	Collective Information Processing and Pattern Formation in Swarms, Flocks, and Crowds. Topics in Cognitive Science, 2009, 1, 469-497.	1.9	160
47	Three-phase traffic theory and two-phase models with a fundamental diagram in the light of empirical stylized facts. Transportation Research Part B: Methodological, 2010, 44, 983-1000.	5.9	159
48	Revisiting Street Intersections Using Slot-Based Systems. PLoS ONE, 2016, 11, e0149607.	2.5	155
49	A network framework of cultural history. Science, 2014, 345, 558-562.	12.6	151
50	Analytical Approach to Continuous and Intermittent Bottleneck Flows. Physical Review Letters, 2006, 97, 168001.	7.8	146
51	Will Democracy Survive Big Data and Artificial Intelligence?. , 2019, , 73-98.		142
52	Optimal self-organization. New Journal of Physics, 0, 1, 13-13.	2.9	124
53	Scaling laws in urban supply networks. Physica A: Statistical Mechanics and Its Applications, 2006, 363, 96-103.	2.6	124
54	Emergence of social cohesion in a model society of greedy, mobile individuals. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11370-11374.	7.1	124

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55	Individualization as Driving Force of Clustering Phenomena in Humans. PLoS Computational Biology, 2010, 6, e1000959.	3.2	122
56	Agent-Based Modeling. Understanding Complex Systems, 2012, , 25-70.	0.6	120
57	Cellular automata simulating experimental properties of traffic flow. Physical Review E, 1999, 59, R2505-R2508.	2.1	119
58	Derivation of a fundamental diagram for urban traffic flow. European Physical Journal B, 2009, 70, 229-241.	1.5	111
59	Theoretical vs. empirical classification and prediction of congested traffic states. European Physical Journal B, 2009, 69, 583-598.	1.5	110
60	Defector-accelerated cooperativeness and punishment in public goods games with mutations. Physical Review E, 2010, 81, 057104.	2.1	110
61	Macroscopic dynamics of multilane traffic. Physical Review E, 1999, 59, 6328-6339.	2.1	109
62	Modelling the dynamics of disaster spreading in networks. Physica A: Statistical Mechanics and Its Applications, 2006, 363, 132-140.	2.6	107
63	HOW INDIVIDUALS LEARN TO TAKE TURNS: EMERGENCE OF ALTERNATING COOPERATION IN A CONGESTION GAME AND THE PRISONER'S DILEMMA. International Journal of Modeling, Simulation, and Scientific Computing, 2005, 08, 87-116.	1.4	104
64	Criticism of three-phase traffic theory. Transportation Research Part B: Methodological, 2009, 43, 784-797.	5.9	100
65	Generalized network dismantling. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6554-6559.	7.1	100
66	Derivation and empirical validation of a refined traffic flow model. Physica A: Statistical Mechanics and Its Applications, 1996, 233, 253-282.	2.6	98
67	How Citation Boosts Promote Scientific Paradigm Shifts and Nobel Prizes. PLoS ONE, 2011, 6, e18975.	2.5	98
68	Extending Adaptive Cruise Control to Adaptive Driving Strategies. Transportation Research Record, 2007, 2000, 16-24.	1.9	97
69	Connectivity Statistics of Store-and-Forward Intervehicle Communication. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 172-181.	8.0	95
70	MIGRATION AS A MECHANISM TO PROMOTE COOPERATION. International Journal of Modeling, Simulation, and Scientific Computing, 2008, 11, 641-652.	1.4	84
71	A mathematical model for the behavior of individuals in a social field. Journal of Mathematical Sociology, 1994, 19, 189-219.	1.2	83
72	Fundamentals of traffic flow. Physical Review E, 1997, 55, 3735-3738.	2.1	81

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73	Optimal incentives for collective intelligence. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5077-5082.	7.1	78
74	Efficient response to cascading disaster spreading. Physical Review E, 2007, 75, 056107.	2.1	75
75	Society: Build digital democracy. Nature, 2015, 527, 33-34.	27.8	72
76	Stability analysis and stabilization strategies for linear supply chains. Physica A: Statistical Mechanics and Its Applications, 2004, 335, 644-660.	2.6	71
77	Group Segregation and Urban Violence. American Journal of Political Science, 2014, 58, 226-245.	4.5	69
78	Interrelations between stochastic equations for systems with pair interactions. Physica A: Statistical Mechanics and Its Applications, 1992, 181, 29-52.	2.6	67
79	A section-based queueing-theoretical traffic model for congestion and travel time analysis in networks. Journal of Physics A, 2003, 36, L593-L598.	1.6	65
80	Self-Organization and Emergence in Social Systems: Modeling the Coevolution of Social Environments and Cooperative Behavior. Journal of Mathematical Sociology, 2011, 35, 177-208.	1.2	62
81	Bankruptcy Cascades in Interbank Markets. PLoS ONE, 2012, 7, e52749.	2.5	61
82	Modeling multi-lane traffic flow with queueing effects. Physica A: Statistical Mechanics and Its Applications, 1997, 242, 175-194.	2.6	59
83	Decentralised control of material or traffic flows in networks using phase-synchronisation. Physica A: Statistical Mechanics and Its Applications, 2006, 363, 39-47.	2.6	59
84	A stochastic behavioral model and a ?Microscopic? foundation of evolutionary game theory. Theory and Decision, 1996, 40, 149-179.	1.0	57
85	Patient and impatient pedestrians in a spatial game for egress congestion. Physical Review E, 2013, 87, 012802.	2.1	56
86	Understanding Recurrent Crime as System-Immanent Collective Behavior. PLoS ONE, 2013, 8, e76063.	2.5	56
87	Volatile decision dynamics: experiments, stochastic description, intermittency control and traffic optimization. New Journal of Physics, 2002, 4, 33-33.	2.9	55
88	The future of social experimenting. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5265-5266.	7.1	54
89	Cooperation, Norms, and Revolutions: A Unified Game-Theoretical Approach. PLoS ONE, 2010, 5, e12530.	2.5	52
90	Resilience of Natural Gas Networks during Conflicts, Crises and Disruptions. PLoS ONE, 2014, 9, e90265.	2.5	51

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91	Thinking Ahead - Essays on Big Data, Digital Revolution, and Participatory Market Society. , 2015, , .		50
92	Boltzmann-like and Boltzmann-Fokker-Planck equations as a foundation of behavioral models. Physica A: Statistical Mechanics and Its Applications, 1993, 196, 546-573.	2.6	48
93	The physics of traffic and regional development. Contemporary Physics, 2004, 45, 405-426.	1.8	48
94	Self-organized network flows. Networks and Heterogeneous Media, 2007, 2, 193-210.	1.1	48
95	Economics 2.0: The Natural Step towards a Self-Regulating, Participatory Market Society. Evolutionary and Institutional Economics Review, 2013, 10, 3-41.	0.6	44
96	Inefficient emergent oscillations in intersecting driven many-particle flows. Physica A: Statistical Mechanics and Its Applications, 2006, 368, 567-574.	2.6	42
97	How Norms Can Generate Conflict: An Experiment on the Failure of Cooperative Micro-motives on the Macro-level. Social Forces, 2012, 90, 919-946.	1.3	42
98	When slower is faster. Complexity, 2015, 21, 9-15.	1.6	42
99	Communication power struggles on social media: A case study of the 2011â€“12 Russian protests. Journal of Information Technology and Politics, 2017, 14, 132-153.	2.9	42
100	How Natural Selection Can Create Both Self- and Other-Regarding Preferences and Networked Minds. Scientific Reports, 2013, 3, 1480.	3.3	41
101	Financial price dynamics and pedestrian counterflows: A comparison of statistical stylized facts. Physical Review E, 2013, 87, 012804.	2.1	37
102	Reducing financial avalanches by random investments. Physical Review E, 2013, 88, 062814.	2.1	33
103	Give more data, awareness and control to individual citizens, and they will help COVID-19 containment. Ethics and Information Technology, 2021, 23, 1-6.	3.8	33
104	The Automation of Society is Next: How to Survive the Digital Revolution. SSRN Electronic Journal, 0, , .	0.4	31
105	Sustained cooperation by running away from bad behavior. Evolution and Human Behavior, 2016, 37, 1-9.	2.2	30
106	SUPPLY AND PRODUCTION NETWORKS: FROM THE BULLWHIP EFFECT TO BUSINESS CYCLES. World Scientific Lecture Notes in Complex Systems, 2005, , 33-66.	0.1	28
107	Ethics of Smart Cities: Towards Value-Sensitive Design and Co-Evolving City Life. Sustainability, 2021, 13, 11162.	3.2	27
108	Rethinking Economics Using Complexity Theory. SSRN Electronic Journal, 0, , .	0.4	24

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109	Managing Complexity in Socio-Economic Systems. European Review, 2009, 17, 423-438.	0.7	23
110	Enskog equations for traffic flow evaluated up to Navier-Stokes order. Archive for History of Exact Sciences, 1998, 1, 21-31.	0.5	22
111	Pattern formation, social forces, and diffusion instability in games with success-driven motion. European Physical Journal B, 2009, 67, 345-356.	1.5	22
112	Phase transitions to cooperation in the prisoner's dilemma. Physical Review E, 2010, 81, 057102.	2.1	22
113	Evolutionary dynamics of populations with conflicting interactions: Classification and analytical treatment considering asymmetry and power. Physical Review E, 2010, 81, 016112.	2.1	22
114	How Wealth Accumulation Can Promote Cooperation. PLoS ONE, 2010, 5, e13471.	2.5	21
115	Conditions for the Emergence of Shared Norms in Populations with Incompatible Preferences. PLoS ONE, 2014, 9, e104207.	2.5	20
116	Building a multisystemic understanding of societal resilience to the COVID-19 pandemic. BMJ Global Health, 2021, 6, e006794.	4.7	20
117	Analytical investigation of innovation dynamics considering stochasticity in the evaluation of fitness. Physical Review E, 2005, 71, 067101.	2.1	19
118	Participatory resilience: Surviving, recovering and improving together. Sustainable Cities and Society, 2022, 83, 103942.	10.4	19
119	Privacy-Preserving Ubiquitous Social Mining via Modular and Compositional Virtual Sensors. , 2015, , .		17
120	Pluralistic Modeling of Complex Systems. SSRN Electronic Journal, 0, , .	0.4	16
121	Sensitivity analysis of permeability parameters for flows on Barcelona networks. Journal of Differential Equations, 2010, 249, 3110-3131.	2.2	14
122	A "Social Bitcoin" could sustain a democratic digital world. European Physical Journal: Special Topics, 2016, 225, 3231-3241.	2.6	14
123	Self-organization Principles in Supply Networks and Production Systems. , 0, , 535-559.		14
124	Fundamental and Real-World Challenges in Economics. SSRN Electronic Journal, 2010, , .	0.4	13
125	Power and Fairness in a Generalized Ultimatum Game. PLoS ONE, 2014, 9, e99039.	2.5	13
126	Collective navigation of complex networks: Participatory greedy routing. Scientific Reports, 2017, 7, 2897.	3.3	12

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127	Die wundervolle Welt aktiver Vielteilchensysteme: Autos, Fußgänger, Vögel oder andere "motorisierte" Teilchen lassen sich durch relativ einfache Verallgemeinerungen der Newtonschen Gleichungen beschreiben. Physik Journal, 2001, 57, 27-33.	0.1	11
128	An Agent-Based Approach to Self-organized Production. Natural Computing Series, 2008, , 219-252.	2.2	10
129	Logistics Networks: Coping with Nonlinearity and Complexity. Understanding Complex Systems, 2008, , 119-136.	0.6	10
130	Qualified Money - A Better Financial System for the Future. SSRN Electronic Journal, 0, , .	0.4	10
131	Why We Need Democracy 2.0 and Capitalism 2.0 to Survive. SSRN Electronic Journal, 0, , .	0.4	9
132	The new silk road and its potential for sustainable development: how open digital participation could make BRI a role model for sustainable businesses and markets. Asian Journal of Sustainability and Social Responsibility, 2019, 4, .	2.7	9
133	How value-sensitive design can empower sustainable consumption. Royal Society Open Science, 2021, 8, 201418.	2.4	8
134	How to Save Human Lives with Complexity Science. SSRN Electronic Journal, 0, , .	0.4	8
135	Turn war rooms into peace rooms. Nature, 2017, 549, 458-458.	27.8	7
136	Game Theoretical Interactions of Moving Agents. Understanding Complex Systems, 2010, , 219-239.	0.6	7
137	Translating citizen-generated air quality data into evidence for shaping policy. Humanities and Social Sciences Communications, 2022, 9, .	2.9	7
138	The Rationality of Prejudices. PLoS ONE, 2012, 7, e30902.	2.5	6
139	Crowd Disasters as Systemic Failures: Analysis of the Love Parade Disaster. SSRN Electronic Journal, 2012, , .	0.4	6
140	Homo Socialis: The Road Ahead. Review of Behavioral Economics, 2015, 2, 239-253.	0.4	6
141	Introducing participatory fairness in emergency communication can support self-organization for survival. Scientific Reports, 2021, 11, 7209.	3.3	6
142	Human-centered Democratic Innovations with Digital and Participatory Elements. , 2021, , .		6
143	An Extension of Asimov's Robotics Laws. , 2019, , 41-46.		6
144	Crowd Dynamics. , 0, , 449-472.		5

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145	From Social Simulation to Integrative System Design. SSRN Electronic Journal, 0, , .	0.4	5
146	Modeling of Socio-Economic Systems. Understanding Complex Systems, 2012, , 1-24.	0.6	4
147	Responding to Complexity in Socio-Economic Systems: How to Build a Smart and Resilient Society?. SSRN Electronic Journal, 0, , .	0.4	4
148	On some fundamental challenges in monitoring epidemics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210117.	3.4	4
149	A New Kind of Economy is Born – Social Decision-Makers Beat the 'Homo Economicus'. SSRN Electronic Journal, 0, , .	0.4	3
150	Extreme power law in a driven many-particle system without threshold dynamics. Physical Review E, 2014, 90, 042201.	2.1	3
151	Introduction – Have We Opened Pandora’s Box?. , 2015, , 1-26.		3
152	From Social Datamining to Forecasting Socio-Economic Crisis. SSRN Electronic Journal, 0, , .	0.4	3
153	Ethics for Times of Crisis. SSRN Electronic Journal, 2018, , .	0.4	2
154	A ‘Social Bitcoin’ Could Sustain a Democratic Digital World. SpringerBriefs in Applied Sciences and Technology, 2021, , 39-51.	0.4	2
155	How and Why Our Conventional Economic Thinking Causes Global Crises. , 2015, , 39-52.		2
156	Economics 2.0: The Natural Step Towards a Self-Regulating, Participatory Market Society. SSRN Electronic Journal, 0, , .	0.4	2
157	Triage 4.0: On Death Algorithms and Technological Selection. Is Today’s Data-Driven Medical System Still Compatible with the Constitution?. Journal of European CME, 2021, 10, 1989243.	1.6	2
158	Cooperation in Social Dilemmas. Understanding Complex Systems, 2012, , 131-138.	0.6	1
159	EDITORIAL: AGENT-BASED MODELING AND TECHNO-SOCIAL SYSTEMS. International Journal of Modeling, Simulation, and Scientific Computing, 2013, 16, 1303002.	1.4	1
160	Nash Dynamics, Meritocratic Matching, and Cooperation. , 2017, , .		1
161	Networked Minds. , 2021, , 175-196.		1
162	Summary: What’s Wrong with AI?. , 2021, , 285-313.		1

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163	Digital Democracy (Democracy 2.0, 3.0, 4.0). , 2021, , 249-268.		1
164	Homo Socialis - The Road Ahead. SSRN Electronic Journal, 0, , .	0.4	1
165	Manifesto de Ciência Social Computacional. Media&Meios: Revista De Ciências Sociais, 2013, 18, 20.	0.1	1
166	A New Kind of Economy is Born – Social Decision-Makers Beat the “Homo Economicus”, 2015, , 57-65.		1
167	Traffic Data and Their Implications for Consistent Traffic Flow Modeling. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 781-786.	0.4	0
168	Editorial. Theory in Biosciences, 2008, 127, 67-68.	1.4	0
169	How Social Inequality Can Promote Cooperation. SSRN Electronic Journal, 2010, , .	0.4	0
170	Social Experiments and Computing. Understanding Complex Systems, 2012, , 201-209.	0.6	0
171	Evolution of Moral Behavior. Understanding Complex Systems, 2012, , 153-167.	0.6	0
172	Heterogeneous Populations: Coexistence, Integration, or Conflict. Understanding Complex Systems, 2012, , 185-199.	0.6	0
173	Sustained Cooperation by Running Away from Bad Behavior. SSRN Electronic Journal, 0, , .	0.4	0
174	An Extension of Asimov's Robotics Laws. SSRN Electronic Journal, 0, , .	0.4	0
175	Assortative Matching with Inequality in Voluntary Contribution Games. Computational Economics, 2018, 52, 1029-1043.	2.6	0
176	Complexity Time Bomb. , 2021, , 17-34.		0
177	How Society Works. , 2021, , 153-173.		0
178	The Self-Organizing Society. , 2021, , 225-248.		0
179	Social Forces. , 2021, , 35-61.		0
180	Disease-Induced Resource Constraints Can Trigger Explosive Pandemics. SSRN Electronic Journal, 0, , .	0.4	0

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181	When Slower Is Faster. SSRN Electronic Journal, 0, , .	0.4	0
182	Wie wir eine smarte, krisenfeste, digitale Gesellschaft bauen können (How We Can Build a Smart,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	0
183	Homo Socialis: The Road Ahead. , 2019, , 187-200.		0
184	Collective Intelligence during Emergency Egress: The Mechanisms Underlying Altruistic Information Exchange. International Journal of Human-Computer Interaction, 2023, 39, 2876-2892.	4.8	0