Renaud Lambiotte

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15,215 129 123 39 h-index g-index citations papers 6.95 138 19,211 3.9 L-index ext. citations avg, IF ext. papers

#	Paper	IF	Citations
129	Fast unfolding of communities in large networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008 , 2008, P10008	1.9	8361
128	Modular and hierarchically modular organization of brain networks. <i>Frontiers in Neuroscience</i> , 2010 , 4, 200	5.1	666
127	Multirelational organization of large-scale social networks in an online world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13636-41	11.5	589
126	Hierarchical modularity in human brain functional networks. Frontiers in Neuroinformatics, 2009, 3, 37	3.9	409
125	Line graphs, link partitions, and overlapping communities. <i>Physical Review E</i> , 2009 , 80, 016105	2.4	354
124	A tale of many cities: universal patterns in human urban mobility. PLoS ONE, 2012, 7, e37027	3.7	317
123	Geographical dispersal of mobile communication networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008 , 387, 5317-5325	3.3	275
122	Random walks and diffusion on networks. <i>Physics Reports</i> , 2017 , 716-717, 1-58	27.7	272
121	Uncovering space-independent communities in spatial networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 7663-8	11.5	236
120	Memory in network flows and its effects on spreading dynamics and community detection. <i>Nature Communications</i> , 2014 , 5, 4630	17.4	218
119	Random Walks, Markov Processes and the Multiscale Modular Organization of Complex Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2014 , 1, 76-90	4.9	181
118	The discovery of population differences in network community structure: new methods and applications to brain functional networks in schizophrenia. <i>NeuroImage</i> , 2012 , 59, 3889-900	7.9	149
117	Traumatic brain injury impairs small-world topology. <i>Neurology</i> , 2013 , 80, 1826-33	6.5	138
116	From networks to optimal higher-order models of complex systems. <i>Nature Physics</i> , 2019 , 15, 313-320	16.2	105
115	Self-similar correlation function in brain resting-state functional magnetic resonance imaging. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 472-9	4.1	94
114	Communities, knowledge creation, and information diffusion. <i>Journal of Informetrics</i> , 2009 , 3, 180-190	3.1	92
113	Line graphs of weighted networks for overlapping communities. <i>European Physical Journal B</i> , 2010 , 77, 265-272	1.2	92

(2011-2005)

112	Uncovering collective listening habits and music genres in bipartite networks. <i>Physical Review E</i> , 2005 , 72, 066107	2.4	87
111	The many facets of community detection in complex networks. <i>Applied Network Science</i> , 2017 , 2, 4	2.9	86
110	The personality of popular facebook users 2012 ,		86
109	Graph partitions and cluster synchronization in networks of oscillators. <i>Chaos</i> , 2016 , 26, 094821	3.3	83
108	Majority model on a network with communities. <i>Physical Review E</i> , 2007 , 75, 030101	2.4	82
107	Diffusion on networked systems is a question of time or structure. <i>Nature Communications</i> , 2015 , 6, 736	6 6 7.4	79
106	Maximal-entropy random walks in complex networks with limited information. <i>Physical Review E</i> , 2011 , 83, 030103	2.4	79
105	. Proceedings of the IEEE, 2014 , 102, 1934-1939	14.3	75
104	Dynamics of non-conservative voters. <i>Europhysics Letters</i> , 2008 , 82, 18007	1.6	75
103	Generalized master equations for non-Poisson dynamics on networks. <i>Physical Review E</i> , 2012 , 86, 0461	024	60
102	Simplicial complexes and complex systems. European Journal of Physics, 2019, 40, 014001	0.8	57
101	Dynamical exploration of the repertoire of brain networks at rest is modulated by psilocybin. <i>Neurolmage</i> , 2019 , 199, 127-142	7.9	53
100	Self-citations, co-authorships and keywords: A new approach to scientists[field mobility?. <i>Scientometrics</i> , 2007 , 72, 469-486	3	48
99	Clusters or networks of economies? A macroeconomy study through Gross Domestic Product. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 382, 16-21	3.3	47
98	Collaborative Tagging as a Tripartite Network. Lecture Notes in Computer Science, 2006, 1114-1117	0.9	47
97	Encoding dynamics for multiscale community detection: Markov time sweeping for the map equation. <i>Physical Review E</i> , 2012 , 86, 026112	2.4	46
96	Burstiness and spreading on temporal networks. European Physical Journal B, 2013, 86, 1	1.2	45
95	Community structure and patterns of scientific collaboration in Business and Management. <i>Scientometrics</i> , 2011 , 89, 381-396	3	45

94	Characterization of the anterior cingulate's role in the at-risk mental state using graph theory. <i>NeuroImage</i> , 2011 , 56, 1531-9	7.9	44
93	Coexistence of opposite opinions in a network with communities. <i>Journal of Statistical Mechanics:</i> Theory and Experiment, 2007 , 2007, P08026-P08026	1.9	44
92	Brownian particle having a fluctuating mass. <i>Physical Review E</i> , 2006 , 73, 011105	2.4	43
91	How does degree heterogeneity affect an order-disorder transition?. Europhysics Letters, 2007, 78, 680	02.6	38
90	Multiscale mixing patterns in networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4057-4062	11.5	36
89	Structure and dynamical behavior of non-normal networks. <i>Science Advances</i> , 2018 , 4, eaau9403	14.3	34
88	The Non-linear Health Consequences of Living in Larger Cities. <i>Journal of Urban Health</i> , 2015 , 92, 785-9	9 5.8	33
87	Dynamics of latent voters. <i>Physical Review E</i> , 2009 , 79, 046107	2.4	33
86	Multibody interactions and nonlinear consensus dynamics on networked systems. <i>Physical Review E</i> , 2020 , 101, 032310	2.4	31
85	Topological Properties and Temporal Dynamics of Place Networks in Urban Environments 2015,		30
84	Effect of memory on the dynamics of random walks on networks. <i>Journal of Complex Networks</i> , 2015 , 3, 177-188	1.7	29
83	Dynamics of vacillating voters. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007 , 2007, L10	00:19L1	0001
82	Functional brain networks before the onset of psychosis: A prospective fMRI study with graph theoretical analysis. <i>NeuroImage: Clinical</i> , 2012 , 1, 91-8	5.3	28
81	Opinion formation in laggard societies. <i>Europhysics Letters</i> , 2008 , 82, 28008	1.6	28
8o	Predicting links in ego-networks using temporal information. EPJ Data Science, 2016, 5,	3.4	27
79	From particle segregation to the granular clock. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 343, 224-230	2.3	27
78	Structural Transitions in Densifying Networks. <i>Physical Review Letters</i> , 2016 , 117, 218301	7.4	25
77	Local leaders in random networks. <i>Physical Review E</i> , 2008 , 77, 036114	2.4	25

(2013-2006)

76	On the genre-fication of music: a percolation approach. European Physical Journal B, 2006, 50, 183-188	1.2	25
75	Using higher-order Markov models to reveal flow-based communities in networks. <i>Scientific Reports</i> , 2016 , 6, 23194	4.9	25
74	Community detection in networks without observing edges. Science Advances, 2020, 6, eaav1478	14.3	21
73	Word statistics in Blogs and RSS feeds: Towards empirical universal evidence. <i>Journal of Informetrics</i> , 2007 , 1, 277-286	3.1	21
72	Unanimity rule on networks. <i>Physical Review E</i> , 2007 , 76, 046101	2.4	21
71	N-body decomposition of bipartite author networks. <i>Physical Review E</i> , 2005 , 72, 066117	2.4	21
70	Local Variation of Hashtag Spike Trains and Popularity in Twitter. <i>PLoS ONE</i> , 2015 , 10, e0131704	3.7	19
69	Endo- vs. exogenous shocks and relaxation rates in book and music Bales [Physica A: Statistical Mechanics and Its Applications, 2006, 362, 485-494	3.3	19
68	Multiscale dynamical embeddings of complex networks. <i>Physical Review E</i> , 2019 , 99, 062308	2.4	18
67	The Anatomy of Reddit: An Overview of Academic Research. <i>Springer Proceedings in Complexity</i> , 2019 , 183-204	0.3	18
66	Respondent-driven sampling bias induced by community structure and response rates in social networks. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2017 , 180, 99-118	2.1	17
65	The classical origin of modern mathematics. <i>EPJ Data Science</i> , 2016 , 5,	3.4	17
64	Extracting significant signal of news consumption from social networks: the case of Twitter in Italian political elections. <i>Palgrave Communications</i> , 2019 , 5,	5.3	16
63	Modelling structure and predicting dynamics of discussion threads in online boards. <i>Journal of Complex Networks</i> , 2019 , 7, 67-82	1.7	16
62	Steady state and mean recurrence time for random walks on stochastic temporal networks. <i>Physical Review E</i> , 2015 , 91, 012806	2.4	15
61	. IEEE Transactions on Computational Social Systems, 2019 , 6, 441-455	4.5	14
60	Growing network with j-redirection. <i>Europhysics Letters</i> , 2007 , 77, 58002	1.6	14
59	Random Walks on Stochastic Temporal Networks. <i>Understanding Complex Systems</i> , 2013 , 295-313	0.4	14

58	Input-output relationship in social communications characterized by spike train analysis. <i>Physical Review E</i> , 2016 , 94, 042313	2.4	13
57	Onset of anomalous diffusion from local motion rules. <i>Physical Review E</i> , 2017 , 95, 022113	2.4	12
56	Role of second trials in cascades of information over networks. <i>Physical Review E</i> , 2009 , 79, 016114	2.4	12
55	Densification and structural transitions in networks that grow by node copying. <i>Physical Review E</i> , 2016 , 94, 062302	2.4	12
54	Majority rule on heterogeneous networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 224021	2	11
53	Modelling non-linear consensus dynamics on hypergraphs. <i>Journal of Physics Complexity</i> , 2021 , 2, 02500	6 1.8	11
52	Multilevel Local Optimization of Modularity 2013 , 315-345		10
51	Granular matter: A wonderful world of clusters in far-from-equilibrium systems. <i>Physica A:</i> Statistical Mechanics and Its Applications, 2005 , 357, 337-349	3.3	10
50	Relating Modularity Maximization and Stochastic Block Models in Multilayer Networks. <i>SIAM Journal on Mathematics of Data Science</i> , 2019 , 1, 667-698	3.1	10
49	Random walk on temporal networks with lasting edges. <i>Physical Review E</i> , 2018 , 98,	2.4	10
48	Different Approaches to Community Detection 2019 , 105-119		10
47	Mining open datasets for transparency in taxi transport in metropolitan environments. <i>EPJ Data Science</i> , 2015 , 4, 23	3.4	9
46	Preferential attachment with partial information. European Physical Journal B, 2015, 88, 1	1.2	8
45	On co-evolution and the importance of initial conditions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011 , 390, 392-397	3.3	8
44	Psychological Aspects of Social Communities 2012 ,		8
43	ANDRZEJ PKALSKI NETWORKS OF SCIENTIFIC INTERESTS WITH INTERNAL DEGREES OF FREEDOM THROUGH SELF-CITATION ANALYSIS. <i>International Journal of Modern Physics C</i> , 2008 , 19, 37	1-384	8
42	Truncated L\(\textstyright\) distributions in an inelastic gas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 345, 309-313	2.3	8
41	Energy nonequipartition in multicomponent granular mixtures. <i>Physical Review E</i> , 2005 , 72, 042301	2.4	8

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40	Time-evolving distribution of time lags between commercial airline disasters. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 362, 513-524	3.3	7
39	Drastic events make evolving networks. European Physical Journal B, 2007 , 57, 89-94	1.2	6
38	Random walks and community detection in hypergraphs. <i>Journal of Physics Complexity</i> , 2021 , 2, 015011	1.8	6
37	Burstiness and fractional diffusion on complex networks. European Physical Journal B, 2016 , 89, 1	1.2	6
36	Co-occurrence simplicial complexes in mathematics: identifying the holes of knowledge. <i>Applied Network Science</i> , 2018 , 3, 37	2.9	6
35	Identifying exogenous and endogenous activity in social media. <i>Physical Review E</i> , 2018 , 98,	2.4	6
34	Dynamics of majority rule on hypergraphs. <i>Physical Review E</i> , 2021 , 104, 024316	2.4	6
33	Multi-scale Modularity and Dynamics in Complex Networks. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2013 , 125-141	0.8	6
32	Sufficient conditions of endemic threshold on metapopulation networks. <i>Journal of Theoretical Biology</i> , 2015 , 380, 134-43	2.3	5
31	Stationarity of the inter-event power-law distributions. <i>PLoS ONE</i> , 2017 , 12, e0174509	3.7	5
30	Classes of random walks on temporal networks with competing timescales. <i>Applied Network Science</i> , 2019 , 4,	2.9	5
29	Graph spectral characterization of the XY model on complex networks. <i>Physical Review E</i> , 2017 , 96, 012	3 1. 2	5
28	Energy and number of collision fluctuations in inelastic gases. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 375, 227-232	3.3	5
27	Activity ageing in growing networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007 , 2007, P02020-P02020	1.9	5
26	Coupled tensor decomposition: A step towards robust components 2016 ,		5
25	Nonlinear Network Dynamics with Consensus Dissensus Bifurcation. <i>Journal of Nonlinear Science</i> , 2021 , 31, 1	2.8	5
24	The geography and carbon footprint of mobile phone use in Cote divoire. <i>EPJ Data Science</i> , 2014 , 3,	3.4	4
23	Temporal pattern of online communication spike trains in spreading a scientific rumor: how often, who interacts with whom?. <i>Frontiers in Physics</i> , 2015 , 3,	3.9	4

22	Imperfect spreading on temporal networks. European Physical Journal B, 2015, 88, 1	1.2	4
21	Altered trajectories in the dynamical repertoire of functional network states under psilocybin		4
20	Nonlinear Consensus on Networks: Equilibria, Effective Resistance, and Trees of Motifs. <i>SIAM Journal on Applied Dynamical Systems</i> , 2021 , 20, 1544-1570	2.8	4
19	Consensus dynamics on temporal hypergraphs <i>Physical Review E</i> , 2021 , 104, 064305	2.4	4
18	Backtracking and Mixing Rate of Diffusion on Uncorrelated Temporal Networks. <i>Entropy</i> , 2017 , 19, 542	2.8	3
17	Rich gets simpler. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9961-2	11.5	2
16	Temporal Pattern of (Re)tweets Reveal Cascade Migration 2017,		2
15	Random Walks on Dense Graphs and Graphons. SIAM Journal on Applied Mathematics, 2021, 81, 2323-23	3 45 8	2
14	Structured Networks and Coarse-Grained Descriptions 2019 , 333-361		2
13	RockpaperBcissors dynamics from random walks on temporal multiplex networks. <i>Journal of Complex Networks</i> , 2020 , 8,	1.7	2
12	Opinion Dynamics with Multi-body Interactions. <i>Communications in Computer and Information Science</i> , 2021 , 261-271	0.3	2
11	RankMerging: a supervised learning-to-rank framework to predict links in large social networks. <i>Machine Learning</i> , 2019 , 108, 1729-1756	4	1
10	Decentralized routing on spatial networks with stochastic edge weights. <i>Physical Review E</i> , 2013 , 88, 022815	2.4	1
9	On high-energy tails in inelastic gases. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 366, 250-254	3.3	1
8	Consensus Dynamics and Opinion Formation on Hypergraphs. <i>Understanding Complex Systems</i> , 2022 , 347-376	0.4	1
7	Consensus from group interactions: An adaptive voter model on hypergraphs. <i>Physical Review E</i> , 2022 , 105,	2.4	1
6	Brexit and bots: characterizing the behaviour of automated accounts on Twitter during the UK election <i>EPJ Data Science</i> , 2022 , 11, 17	3.4	O
5	Flow-Based Community Detection in Hypergraphs. <i>Understanding Complex Systems</i> , 2022 , 141-161	0.4	O

LIST OF PUBLICATIONS

- Flow stability for dynamic community detection.. Science Advances, **2022**, 8, eabj3063
- 14.3 0
- Analysis of metapopulation epidemic process on arbitrary networks. *IFAC-PapersOnLine*, **2015**, 48, 141-1457
- 2 Continuous-Time Random Walks and Temporal Networks. Computational Social Sciences, 2019, 219-233 0.7
- The struggle for existence in the world market ecosystem. *PLoS ONE*, **2018**, 13, e0203915

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