Niloy Ganguly

List of Publications by Year
in descending order

202 papers	3,090 citations	471509 17 h-index	477307 29 g-index
204 all docs	204 docs citations	204 times ranked	2205 citing authors

#	Article	IF	Citations
1	Offsetting Unequal Competition Through RL-Assisted Incentive Schemes. IEEE Transactions on Computational Social Systems, 2023, 10, 285-296.	4.4	0
2	Toward Fair Recommendation in Two-sided Platforms. ACM Transactions on the Web, 2022, 16, 1-34.	2.5	6
3	Recommendation ofÂCompatible Outfits Conditioned onÂStyle. Lecture Notes in Computer Science, 2022, , 35-50.	1.3	2
4	CrysXPP: An explainable property predictor for crystalline materials. Npj Computational Materials, 2022, 8, .	8.7	5
5	Scheduling Virtual Conferences Fairly: Achieving Equitable Participant and Speaker Satisfaction. , 2022, , .		1
6	Designing an Experience Sampling Method for Smartphone Based Emotion Detection. IEEE Transactions on Affective Computing, 2021, 12, 913-927.	8.3	16
7	An Integrated Approach for Improving Brand Consistency of Web Content. ACM Transactions on the Web, 2021, 15, 1-25.	2.5	2
8	Demarcating Endogenous and Exogenous Opinion Dynamics: An Experimental Design Approach. ACM Transactions on Knowledge Discovery From Data, 2021, 15, 1-25.	3.5	0
9	Modeling Inter-process Dynamics in Competitive Temporal Point Processes. Journal of the Indian Institute of Science, 2021, 101, 455.	1.9	1
10	TMCOSS: Thresholded Multi-Criteria Online Subset Selection for Data-Efficient Autonomous Driving. , 2021, , .		2
11	On the effectiveness of the scientific peer-review system: a case study of the Journal of High Energy Physics. International Journal on Digital Libraries, 2020, 21, 93-107.	1.5	2
12	GradeSense: Gradation Aware Storage for Robust Activity Recognition in a Multimodal Smarthome. , 2020, , .		1
13	Incremental Fairness in Two-Sided Market Platforms: On Smoothly Updating Recommendations. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 181-188.	4.9	30
14	A Smartphone-Based Passenger Assistant for Public Bus Commute in Developing Countries. IEEE Transactions on Computational Social Systems, 2020, 7, 465-476.	4.4	4
15	Multi-criteria online frame-subset selection for autonomous vehicle videos. Pattern Recognition Letters, 2020, 133, 349-355.	4.2	7
16	A GAN-based Framework for Modeling Hashtag Popularity Dynamics Using Assistive Information. , 2020, , .		4
17	FairRec: Two-Sided Fairness for Personalized Recommendations in Two-Sided Platforms. , 2020, , .		100
18	Towards Safety and Sustainability: Designing Local Recommendations for Post-pandemic World. , 2020, , .		10

#	Article	IF	Citations
19	Read what you need: Controllable Aspect-based Opinion Summarization of Tourist Reviews. , 2020, , .		15
20	MVL: Multi-View Learning for News Recommendation. , 2020, , .		15
21	Topic Influence Graph Based Analysis of Seminal Papers. , 2020, , .		1
22	Identifying and Analyzing Different Aspects of English-Hindi Code-Switching in Twitter. ACM Transactions on Asian and Low-Resource Language Information Processing, 2019, 18, 1-28.	2.0	9
23	EmoKey: An Emotion-aware Smartphone Keyboard for Mental Health Monitoring. , 2019, , .		16
24	Learning Information Dynamics in Online Social Media: A Temporal Point Process Perspective. Springer Proceedings in Complexity, 2019, , 205-236.	0.3	0
25	Exploiting Diversity in Android TLS Implementations for Mobile App Traffic Classification. , 2019, , .		14
26	Editorial Versus Audience Gatekeeping: Analyzing News Selection and Consumption Dynamics in Online News Media. IEEE Transactions on Computational Social Systems, 2019, 6, 680-691.	4.4	8
27	Summarizing Situational Tweets in Crisis Scenarios: An Extractive-Abstractive Approach. IEEE Transactions on Computational Social Systems, 2019, 6, 981-993.	4.4	30
28	Learning Linear Influence Models in Social Networks from Transient Opinion Dynamics. ACM Transactions on the Web, 2019, 13, 1-33.	2.5	7
29	Understanding Brand Consistency from Web Content. , 2019, , .		2
30	CRIMP: Here crisis mapping goes offline. Journal of Network and Computer Applications, 2019, 146, 102418.	9.1	2
31	Identifying Multi-dimensional Information from Microblogs During Epidemics. , 2019, , .		3
32	Non-link Preserving Network Embedding using Subspace Learning for Network Reconstruction. , 2019, , .		0
33	Learning Network Traffic Dynamics Using Temporal Point Process. , 2019, , .		13
34	Emotion detection from touch interactions during text entry on smartphones. International Journal of Human Computer Studies, 2019, 130, 47-57.	5.6	38
35	Online Public Shaming on Twitter: Detection, Analysis, and Mitigation. IEEE Transactions on Computational Social Systems, 2019, 6, 208-220.	4.4	62
36	Optimizing the recency-relevance-diversity trade-offs in non-personalized news recommendations. Information Retrieval, 2019, 22, 447-475.	2.0	13

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37	Does emotion influence the use of auto-suggest during smartphone typing?. , 2019, , .		9
38	Representation Learning for Emotion Recognition from Smartphone Keyboard Interactions. , 2019, , .		5
39	Online Social Networks to Foster Long-Term Welfare. GetMobile (New York, N Y), 2019, 23, 5-8.	1.0	1
40	<i>Going Beyond Content Richness</i> : Verified Information Aware Summarization of Crisis-Related Microblogs. , 2019, , .		2
41	The positive and negative effects of social media in India. Communications of the ACM, 2019, 62, 98-99.	4.5	4
42	A Large-Scale Study of the Twitter Follower Network to Characterize the Spread of Prescription Drug Abuse Tweets. IEEE Transactions on Computational Social Systems, 2019, 6, 1232-1244.	4.4	16
43	TSFS: An Integrated Approach for Event Segmentation and ADL Detection in IoT Enabled Smarthomes. IEEE Transactions on Mobile Computing, 2019, 18, 2686-2700.	5.8	4
44	Equality of Voice. , 2019, , .		60
45	A Deep Generative Model for Code Switched Text. , 2019, , .		16
46	Towards an Aspect-Based Ranking Model for Clinical Trial Search. Lecture Notes in Computer Science, 2019, , 209-222.	1.3	1
47	Metrics for Community Analysis. ACM Computing Surveys, 2018, 50, 1-37.	23.0	181
48	Demarcating Endogenous and Exogenous Opinion Diffusion Process on Social Networks. , 2018, , .		10
49	Classifying and Summarizing Information from Microblogs During Epidemics. Information Systems Frontiers, 2018, 20, 933-948.	6.4	25
50	Characterizing and Countering Communal Microblogs During Disaster Events. IEEE Transactions on Computational Social Systems, 2018, 5, 403-417.	4.4	28
51	HotDASH: Hotspot Aware Adaptive Video Streaming Using Deep Reinforcement Learning. , 2018, , .		41
52	ADELE: Anomaly Detection from Event Log Empiricism. , 2018, , .		30
53	Analyzing the News Coverage of Personalized Newspapers. , 2018, , .		2
54	Harnessing Twitter for Answering Opinion List Queries. IEEE Transactions on Computational Social Systems, 2018, 5, 1083-1095.	4.4	2

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55	CRPP. , 2018, , .		6
56	Comfride. , 2018, , .		14
57	GBTM: Graph Based Troubleshooting Method for Handling Customer Cases Using Storage System Log. Lecture Notes in Computer Science, 2018, , 386-398.	1.3	0
58	Identifying Sub-events and Summarizing Disaster-Related Information from Microblogs. , 2018, , .		43
59	One for the Road: Recommending Male Street Attire. Lecture Notes in Computer Science, 2018, , 571-582.	1.3	2
60	Extracting and Summarizing Situational Information from the Twitter Social Media during Disasters. ACM Transactions on the Web, 2018, 12, 1-35.	2.5	59
61	Editorial Algorithms. , 2018, , .		3
62	Effectiveness of Deep Neural Network Model in Typing-based Emotion Detection on Smartphones. , 2018, , .		3
63	Permanence and Community Structure in Complex Networks. ACM Transactions on Knowledge Discovery From Data, 2017, 11, 1-34.	3.5	9
64	Friends are forever? Evolution of active friendship clusters in online social networks. , 2017, , .		0
65	Optimizing the Recency-Relevancy Trade-off in Online News Recommendations. , 2017, , .		17
66	Understanding the Usage of Idioms in the Twitter Social Network. , 2017, , 767-788.		1
67	A Generic Opinion-Fact Classifier with Application in Understanding Opinionatedness in Various News Section. , 2017, , .		5
68	TapSense. , 2017, , .		31
69	Towards designing an intelligent experience sampling method for emotion detection. , 2017, , .		5
70	Influence of Reviewer Interaction Network on Long-Term Citations: A Case Study of the Scientific Peer-Review System of the Journal of High Energy Physics. , 2017, , .		6
71	Evolution of superpeer topologies â€" An analytical perspective. Pervasive and Mobile Computing, 2017, 40, 339-358.	3.3	0
72	Candid with YouTube. , 2017, , .		21

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73	Analysis of the Co-purchase Network of Products to Predict Amazon Sales-Rank. Lecture Notes in Computer Science, 2017, , 197-214.	1.3	1
74	Tabloids in the Era of Social Media?. Proceedings of the ACM on Human-Computer Interaction, 2017, 1, 1-21.	3.3	13
75	Classifying Information from Microblogs during Epidemics. , 2017, , .		15
76	CommBox: Utilizing sensors for real-time cricket shot identification and commentary generation. , 2017, , .		1
77	Link Travel Time Prediction from Large Scale Endpoint Data. , 2017, , .		5
78	Evaluating effectiveness of smartphone typing as an indicator of user emotion. , 2017, , .		20
79	Mining Twitter and Taxi Data for Predicting Taxi Pickup Hotspots. , 2017, , .		1
80	Extracting Social Lists from Twitter. , 2017, , .		3
81	STRM: A sister tweet reinforcement process for modeling hashtag popularity. , 2017, , .		7
82	SLANT+: A Nonlinear Model for Opinion Dynamics in Social Networks. , 2017, , .		7
83	MoViDiff: Enabling service differentiation for mobile video apps. , 2017, , .		3
84	Smart-phone based Spatio-temporal Sensing for Annotated Transit Map Generation. , 2017, , .		8
85	LMPP: A Large Margin Point Process Combining Reinforcement and Competition for Modeling Hashtag Popularity. , 2017, , .		11
86	Usage Based Tag Enhancement of Images. Lecture Notes in Computer Science, 2017, , 278-290.	1.3	0
87	Stop Clickbait: Detecting and preventing clickbaits in online news media. , 2016, , .		170
88	Threshold-based epidemic dynamics in systems with memory. Europhysics Letters, 2016, 116, 48004.	2.0	1
89	Notice of Removal: Characterizing communal microblogs during disaster events. , 2016, , .		12
90	Brokerage-based attack on real world temporal networks. Network Science, 2016, 4, 446-459.	1.0	1

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91	Syntactic complexity of Web search queries through the lenses of language models, networks and users. Information Processing and Management, 2016, 52, 923-948.	8.6	10
92	Discriminative Link Prediction using Local, Community, and Global Signals. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 2057-2070.	5.7	34
93	Understanding data traffic behaviour for smartphone video and audio apps. , 2016, , .		4
94	Mining Twitter Conversations around E-commerce Promotional Events. , 2016, , .		0
95	Summarizing Situational Tweets in Crisis Scenario. , 2016, , .		40
96	Identifying and Characterizing Sleeping Beauties on YouTube. , 2016, , .		6
97	UrbanEye: An outdoor localization system for public transport. , 2016, , .		23
98	GenPerm: A Unified Method for Detecting Non-Overlapping and Overlapping Communities. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 2101-2114.	5.7	31
99	Time series analysis of temporal networks. European Physical Journal B, 2016, 89, 1.	1.5	9
100	FeRoSA: A Faceted Recommendation System for Scientific Articles. Lecture Notes in Computer Science, 2016, , 528-541.	1.3	16
101	On the Wisdom of Experts vs. Crowds. , 2016, , .		8
102	Anomalies in the Peer-review System. , 2016, , .		5
103	Unsupervised annotated city traffic map generation. , 2016, , .		6
104	Understanding Language Preference for Expression of Opinion and Sentiment: What do Hindi-English Speakers do on Twitter?. , 2016, , .		40
105	Improving Document Ranking for Long Queries with Nested Query Segmentation. Lecture Notes in Computer Science, 2016, , 775-781.	1.3	1
106	Impact of experience sampling methods on tap pattern based emotion recognition. , 2015, , .		4
107	An author is known by the context she keeps: significance of network motifs in scientific collaborations. Social Network Analysis and Mining, 2015, 5, 1.	2.8	12
108	Sampling Content from Online Social Networks. ACM Transactions on the Web, 2015, 9, 1-33.	2.5	24

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109	Message from social network workshop co-chairs. , 2015, , .		0
110	Discovering and understanding word level user intent in Web search queries. Web Semantics, 2015, 30, 22-38.	2.9	17
111	Aggregating inter-app traffic to optimize cellular radio energy consumption on smartphones. , 2015, , .		2
112	Coverage maximization under resource constraints using proliferating random walks. Pramana - Journal of Physics, 2015, 84, 273-284.	1.8	0
113	On the broadcast of segmented messages in dynamic networks. , 2015, , .		0
114	ActivPass. , 2015, , .		13
115	Microscopic Description and Prediction of Information Diffusion in Social Media. , 2015, , .		1
116	On the categorization of scientific citation profiles in computer science. Communications of the ACM, 2015, 58, 82-90.	4.5	34
117	Extracting Situational Information from Microblogs during Disaster Events. , 2015, , .		116
118	Understanding and modeling diverse scientific careers of researchers. Journal of Informetrics, 2015, 9, 69-78.	2.9	18
119	Attack tolerance of correlated time-varying social networks with well-defined communities. Physica A: Statistical Mechanics and Its Applications, 2015, 420, 98-107.	2.6	8
120	Resource Constrained Randomized Coverage Strategies for Unstructured Networks. Intelligent Systems Reference Library, 2015, , 107-134.	1.2	0
121	UNDERSTANDING THE CORRELATION OF THE PROPERTIES OF HUMAN MOVEMENT PATTERNS. International Journal of Modeling, Simulation, and Scientific Computing, 2014, 17, 1450019.	1.4	0
122	Structure and Evolution of Online Social Networks. Intelligent Systems Reference Library, 2014, , 23-44.	1.2	7
123	Deep Twitter diving. , 2014, , .		25
124	On the permanence of vertices in network communities. , 2014, , .		91
125	Learning a Linear Influence Model from Transient Opinion Dynamics. , 2014, , .		31
126	Automatic classification of scientific groups as productive: An approach based on motif analysis. , 2014, , .		2

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127	Intergroup networks as random threshold graphs. Physical Review E, 2014, 89, 042812.	2.1	9
128	Epidemic spreading through direct and indirect interactions. Physical Review E, 2014, 90, 032808.	2.1	6
129	Inferring user interests in the Twitter social network. , 2014, , .		87
130	Towards a stratified learning approach to predict future citation counts. , 2014, , .		50
131	Rising popularity of interdisciplinary research — An analysis of citation networks. , 2014, , .		2
132	Improving unsupervised query segmentation using parts-of-speech sequence information. , 2014, , .		2
133	(Stable) virtual landmarks: Spatial dropbox to enhance retail experience. , 2014, , .		1
134	Citation interactions among computer science fields: a quantitative route to the rise and fall of scientific research. Social Network Analysis and Mining, 2014, 4, 1.	2.8	15
135	A Novel Two-stage Framework for Extracting Opinionated Sentences from News Articles. , 2014, , .		4
136	Automatic Classification and Analysis of Interdisciplinary Fields in Computer Sciences. , 2013, , .		10
137	Effect of constraints on superpeer topologies. , 2013, , .		3
138	Understanding Evolution of Inter-Group Relationships Using Bipartite Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 584-594.	14.0	2
139	Effect of attachment strategies on bipartite networks. European Physical Journal B, 2013, 86, 1.	1.5	0
140	Delay tolerant networks as spatio-temporal networks. , 2013, , .		0
141	On sampling the wisdom of crowds. , 2013, , .		39
142	Computer science fields as ground-truth communities. , 2013, , .		38
143	Sprinkler. , 2013, , .		11
144	Analyzing the performance of epidemic broadcasting in DTNs using directional antenna. , 2013, , .		1

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145	Coverage maximization under resource constraints using a nonuniform proliferating random walk. Physical Review E, 2013, 87, 022807.	2.1	2
146	Discriminative Link Prediction Using Local Links, Node Features and Community Structure. , 2013, , .		11
147	Constant Communities in Complex Networks. Scientific Reports, 2013, 3, 1825.	3.3	31
148	Offloading cellular traffic. , 2013, , .		1
149	Place value. , 2013, , .		1
150	POSTER: Using Directional Antennas for Epidemic Routing in DTNs in Practice. Lecture Notes in Computer Science, 2013, , 458-460.	1.3	0
151	Local learning of item dissimilarity using content and link structure. , 2012, , .		5
152	Information dissemination dynamics in delay tolerant network. , 2012, , .		3
153	Cognos. , 2012, , .		140
154	Detecting overlapping communities in folksonomies. , 2012, , .		10
155	Distributed content storage for just-in-time streaming. , 2012, , .		1
156	Inferring who-is-who in the Twitter social network. , 2012, , .		46
157	An IR-based evaluation framework for web search query segmentation. , 2012, , .		11
158	A Tunable Mechanism for Identifying Trusted Nodes in Large Scale Distributed Networks. , 2012, , .		7
159	Correlations in complex networks under attack. Physical Review E, 2012, 86, 036106.	2.1	17
160	Can Degree Correlation Help to Design Resilient Superpeer Networks?. , 2012, , .		0
161	Inferring who-is-who in the Twitter social network. Computer Communication Review, 2012, 42, 533-538.	1.8	31
162	Distributed content storage for just-in-time streaming. Computer Communication Review, 2012, 42, 77-78.	1.8	2

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163	Epidemic broadcasting in DTNs using directional antenna. , 2012, , .		2
164	Framework for Collaborative Download in Wireless Mobile Environment. , 2012, , .		2
165	Degree distributions of evolving alphabetic bipartite networks and their projections. Theoretical Computer Science, 2012, 466, 20-36.	0.9	4
166	Understanding and combating link farming in the twitter social network. , 2012, , .		230
167	Effects of a soft cut-off on node-degree in the Twitter social network. Computer Communications, 2012, 35, 784-795.	5.1	6
168	Some insights on the recent spate of accidents in Indian Railways. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 2917-2929.	2.6	5
169	Smart Association Control in Wireless Mobile Environment Using Max-Flow. IEEE Transactions on Network and Service Management, 2012, 9, 73-86.	4.9	26
170	Attacks on correlated peer-to-peer networks: An analytical study. , 2011, , .		3
171	Spammers' networks within online social networks. , 2011, , .		12
172	Understanding how both the partitions of a bipartite network affect its one-mode projection. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 3602-3607.	2.6	15
173	Unsupervised query segmentation using only query logs. , 2011, , .		26
174	Optimizing topology in Bit Torrent based networks. , 2011, , .		1
175	ON COVERAGE BOUNDS OF UNSTRUCTURED PEER-TO-PEER NETWORKS. International Journal of Modeling, Simulation, and Scientific Computing, 2011, 14, 611-633.	1.4	1
176	Identifying overlapping communities in folksonomies or tripartite hypergraphs. , 2011, , .		7
177	Assessing the Effects of a Soft Cut-Off in the Twitter Social Network. Lecture Notes in Computer Science, 2011, , 288-300.	1.3	1
178	Fair bandwidth allocation in wireless network using max-flow. Computer Communication Review, 2010, 40, 407-408.	1.8	0
179	HPC5: An efficient topology generation mechanism for Gnutella networks. Computer Networks, 2010, 54, 1440-1459.	5.1	4
180	Coverage-maximization in networks under resource constraints. Physical Review E, 2010, 81, 061124.	2.1	5

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181	Modeling discrete combinatorial systems as alphabetic bipartite networks: Theory and applications. Physical Review E, 2010, 81, 036103.	2.1	11
182	Fair bandwidth allocation in wireless network using max-flow. , 2010, , .		5
183	Modeling broadcasting using omnidirectional and directional antenna in delay tolerant networks as an epidemic dynamics. IEEE Journal on Selected Areas in Communications, 2010, 28, 524-531.	14.0	16
184	Modelling the Redundancy of Human Speech Sound Inventories: An Information Theoretic Approach. Journal of Quantitative Linguistics, 2010, 17, 317-343.	1.2	2
185	Fair bandwidth allocation in wireless mobile environment using max-flow. , 2010, , .		4
186	How do Superpeer Networks Emerge?. , 2010, , .		9
187	Formal Understanding of the Emergence of Superpeer Networks: A Complex Network Approach. Lecture Notes in Computer Science, 2010, , 219-230.	1.3	2
188	Community formation and search in P2P: A robust and self-adjusting algorithm. , 2009, , .		3
189	Self-organization of the Sound Inventories: Analysis and Synthesis of the Occurrence and Co-occurrence Networks of Consonantsâˆ’. Journal of Quantitative Linguistics, 2009, 16, 157-184.	1.2	18
190	Stability analysis of peer-to-peer networks against churn. Pramana - Journal of Physics, 2008, 71, 263-273.	1.8	4
191	A Bandwidth Aware Topology Generation Mechanism for Peer-to-Peer based Publish-Subscribe Systems. , 2008, , .		0
192	Community based search on power law networks. , 2008, , .		0
193	Generalized theory for node disruption in finite-size complex networks. Physical Review E, 2008, 78, 026115.	2.1	8
194	REDISCOVERING THE CO-OCCURRENCE PRINCIPLES OF VOWEL INVENTORIES: A COMPLEX NETWORK APPROACH. International Journal of Modeling, Simulation, and Scientific Computing, 2008, 11, 371-392.	1.4	4
195	HPC5: An Efficient Topology Generation Mechanism for Gnutella Networks. Lecture Notes in Computer Science, 2008, , 114-126.	1.3	2
196	MODELING THE CO-OCCURRENCE PRINCIPLES OF THE CONSONANT INVENTORIES: A COMPLEX NETWORK APPROACH. International Journal of Modern Physics C, 2007, 18, 281-295.	1.7	12
197	Analyzing the vulnerability of superpeer networks against attack. , 2007, , .		13
198	Measuring robustness of superpeer topologies. , 2007, , .		3

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199	How stable are large superpeer networks against attack?. , 2007, , .		1
200	How stable are large superpeer networks against attack?. , 2007, , .		0
201	A new bio-inspired location search algorithm for peer to peer network based Internet telephony. , 2006, , .		0
202	Discovering and Understanding Word Level User Intent in Web Search Queries. SSRN Electronic Journal, 0, , .	0.4	2