

# Soumya K K Ghosh

## List of Publications by Year in descending order

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93  
papers

2,346  
citations

331670

21  
h-index

233421

45  
g-index

98  
all docs

98  
docs citations

98  
times ranked

2129  
citing authors

#	ARTICLE	IF	CITATIONS
1	CoMCLoud: Virtual Machine Coalition for Multi-Tier Applications Over Multi-Cloud Environments. IEEE Transactions on Cloud Computing, 2023, 11, 956-970.	4.4	11
2	Stark: Fast and Scalable Strassen's Matrix Multiplication Using Apache Spark. IEEE Transactions on Big Data, 2022, 8, 699-710.	6.1	7
3	LYRIC: Deadline and Budget Aware Spatio-Temporal Query Processing in Cloud. IEEE Transactions on Services Computing, 2022, 15, 2869-2882.	4.6	4
4	Innovative software systems for managing the impact of the COVID-19 pandemic. Software - Practice and Experience, 2022, 52, 821-823.	3.6	0
5	Containerized deployment of micro-services in fog devices: a reinforcement learning-based approach. Journal of Supercomputing, 2022, 78, 6817-6845.	3.6	2
6	A Multilayered Adaptive Recurrent Incremental Network Model for Heterogeneity-Aware Prediction of Derived Remote Sensing Image Time Series. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	2
7	RESCUE: Enabling green healthcare services using integrated IoT-edge-fog-cloud computing environments. Software - Practice and Experience, 2022, 52, 1615-1642.	3.6	12
8	Statistical and Machine Learning Models for Remote Sensing Data Mining's Recent Advancements. Remote Sensing, 2022, 14, 1906.	4.0	1
9	MANTRA: Semantic Mobility Knowledge Analytics Framework for Trajectory Annotation. , 2022, , .		1
10	Internet of Health Things (IoHT) for personalized health care using integrated edge-fog-cloud network. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 943-959.	4.9	44
11	Reducing Parameter Value Uncertainty in Discrete Bayesian Network Learning: A Semantic Fuzzy Bayesian Approach. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 361-372.	4.9	8
12	Student performance analysis and prediction in classroom learning: A review of educational data mining studies. Education and Information Technologies, 2021, 26, 205-240.	5.7	81
13	Multi-facilities-based road network analysis for flood hazard management. Journal of Spatial Science, 2021, 66, 113-141.	1.5	1
14	Random wheel: An algorithm for early classification of student performance with confidence. Engineering Applications of Artificial Intelligence, 2021, 102, 104270.	8.1	15
15	Does Climate Variability Impact COVID-19 Outbreak? An Enhanced Semantics-Driven Theory-Guided Model. SN Computer Science, 2021, 2, 452.	3.6	4
16	CONFRONT: Cloud-fog-dew based monitoring framework for COVID-19 management. Internet of Things (Netherlands), 2021, 16, 100459.	7.7	8
17	Analyzing Impact of Climate Variability on COVID-19 Outbreak: A Semantically-enhanced Theory-guided Data-driven Approach. , 2021, , .		3
18	Short-Term Load Forecasting: An Intelligent Approach Based on Recurrent Neural Network. Advances in Intelligent Systems and Computing, 2021, , 52-62.	0.6	1

#	ARTICLE	IF	CITATIONS
19	Mobility Driven Cloud-Fog-Edge Framework for Location-Aware Services: A Comprehensive Review. , 2021, , 229-249.		3
20	Geospatial Edge-Fog Computing: A Systematic Review, Taxonomy, and Future Directions. , 2021, , 47-69.		6
21	Introduction to Mobile Edge Computing. , 2021, , 3-19.		4
22	Mobi-IoST: Mobility-Aware Cloud-Fog-Edge-IoT Collaborative Framework for Time-Critical Applications. IEEE Transactions on Network Science and Engineering, 2020, 7, 2271-2285.	6.4	83
23	Enhanced Bayesian Network Models for Spatial Time Series Prediction. Studies in Computational Intelligence, 2020, , .	0.9	4
24	Spatio-Fog: A green and timeliness-oriented fog computing model for geospatial query resolution. Simulation Modelling Practice and Theory, 2020, 100, 102043.	3.8	14
25	CLAWER: Context-aware Cloud-Fog based Workflow Management Framework for Health Emergency Services. , 2020, , .		12
26	Exploring Mobility Behaviours of Moving Agents from Trajectory traces in Cloud-Fog-Edge Collaborative Framework. , 2020, , .		1
27	Influence modeling of opinion switching by Twitter users in public shaming events. Social Network Analysis and Mining, 2020, 10, 1.	2.8	2
28	Green Containerized Service Consolidation in Cloud. , 2020, , .		5
29	Data-Driven Approaches for Spatio-Temporal Analysis: A Survey of the State-of-the-Arts. Journal of Computer Science and Technology, 2020, 35, 665-696.	1.5	8
30	Locator: A Cloud-Fog-Enabled Framework for Facilitating Efficient Location based Services. , 2020, , .		11
31	FogIoT: A weighted majority game theory based energy-efficient delay-sensitive fog network for internet of health things. Internet of Things (Netherlands), 2020, 11, 100181.	7.7	40
32	Spatio-temporal prediction of land surface temperature using semantic kriging. Transactions in GIS, 2020, 24, 189-212.	2.3	7
33	A fast scalable distributed kriging algorithm using Spark framework. International Journal of Data Science and Analytics, 2020, 10, 249-264.	4.1	6
34	Advanced Bayesian Network Models with Fuzzy Extension. Studies in Computational Intelligence, 2020, , 101-113.	0.9	1
35	MARIO: A spatio-temporal data mining framework on Google Cloud to explore mobility dynamics from taxi trajectories. Journal of Network and Computer Applications, 2020, 164, 102692.	9.1	24
36	SARDINE. ACM Transactions on Spatial Algorithms and Systems, 2020, 6, 1-26.	1.4	8

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37	Spatial Bayesian Network. Studies in Computational Intelligence, 2020, , 53-79.	0.9	0
38	Spatial Time Series Prediction Using Advanced BN Models”An Application Perspective. Studies in Computational Intelligence, 2020, , 125-136.	0.9	0
39	Bayesian Network with Residual Correction Mechanism. Studies in Computational Intelligence, 2020, , 23-52.	0.9	0
40	Semantic Bayesian Network. Studies in Computational Intelligence, 2020, , 81-99.	0.9	0
41	Summary and Future Research. Studies in Computational Intelligence, 2020, , 137-142.	0.9	0
42	Power-efficient and Latency-aware Offloading in Energy-harvested Cloud-enabled Small cell Network. , 2020, , .		2
43	Measuring Domain Knowledge for Early Prediction of Student Performance: A Semantic Approach. , 2020, , .		1
44	Traj-Cloud: A Trajectory Cloud for enabling Efficient Mobility Services. , 2019, , .		9
45	Space-time Prediction of High Resolution Raster Data. , 2019, , .		4
46	Holistic resource management for sustainable and reliable cloud computing: An innovative solution to global challenge. Journal of Systems and Software, 2019, 155, 104-129.	4.5	55
47	Online Public Shaming on Twitter: Detection, Analysis, and Mitigation. IEEE Transactions on Computational Social Systems, 2019, 6, 208-220.	4.4	62
48	Geo-Cloudlet: Time and Power Efficient Geospatial Query Resolution using Cloudlet. , 2019, , .		4
49	PTC: Pick-Test-Choose to Place Containerized Micro-Services in IoT. , 2019, , .		6
50	MovCloud: A Cloud-Enabled Framework to Analyse Movement Behaviors. , 2019, , .		6
51	FB-STEP: A fuzzy Bayesian network based data-driven framework for spatio-temporal prediction of climatological time series data. Expert Systems With Applications, 2019, 117, 211-227.	7.6	35
52	Time”frequency masking based supervised speech enhancement framework using fuzzy deep belief network. Applied Soft Computing Journal, 2019, 74, 583-602.	7.2	25
53	Data mining based analysis to explore the effect of teaching on student performance. Education and Information Technologies, 2018, 23, 1677-1697.	5.7	19
54	A multi”objective framework for analysis of road network vulnerability for relief facility location during flood hazards: A case study of relief location analysis in Bankura District, India. Transactions in GIS, 2018, 22, 1064-1082.	2.3	8

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55	Data-driven approaches for meteorological time series prediction: A comparative study of the state-of-the-art computational intelligence techniques. Pattern Recognition Letters, 2018, 105, 155-164.	4.2	34
56	Modeling Individual's Movement Patterns to Infer Next Location from Sparse Trajectory Traces. , 2018, , .		9
57	Hybrid Path Planner for Efficient Navigation in Urban Road Networks through Analysis of Trajectory Traces. , 2018, , .		3
58	Exploring the association between mobility behaviours and academic performances of students: a context-aware traj-graph (CTG) analysis. Progress in Artificial Intelligence, 2018, 7, 307-326.	2.4	12
59	Activity-based Mobility Profiling. , 2018, , .		9
60	Multi-objective Based Road-Link Grading for Health-Care Access During Flood Hazard Management. Lecture Notes in Computer Science, 2018, , 277-293.	1.3	0
61	FORWARD: A Model for FOrecasting Reservoir WAtER Dynamics Using Spatial Bayesian Network (SpaBN). IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 842-855.	5.7	23
62	semBnet: A semantic Bayesian network for multivariate prediction of meteorological time series data. Pattern Recognition Letters, 2017, 93, 192-201.	4.2	37
63	Measuring Moran's I in a Cost-Efficient Manner to Describe a Land-Cover Change Pattern in Large-Scale Remote Sensing Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2631-2639.	4.9	27
64	Spatio-temporal Autocorrelation Analysis for Regional Land-cover Change Detection from Remote Sensing Data. , 2017, , .		4
65	iFogSim: A toolkit for modeling and simulation of resource management techniques in the Internet of Things, Edge and Fog computing environments. Software - Practice and Experience, 2017, 47, 1275-1296.	3.6	972
66	Spatio-Temporal Prediction of Meteorological Time Series Data: An Approach Based on Spatial Bayesian Network (SpaBN). Lecture Notes in Computer Science, 2017, , 615-622.	1.3	5
67	FPGA Implementation of a Phase-Aware Single-Channel Speech Enhancement System. Circuits, Systems, and Signal Processing, 2017, 36, 4688-4715.	2.0	4
68	Modeling of Human Movement Behavioral Knowledge from GPS Traces for Categorizing Mobile Users. , 2017, , .		17
69	Improving the Performance of Deep Learning Based Speech Enhancement System Using Fuzzy Restricted Boltzmann Machine. Lecture Notes in Computer Science, 2017, , 534-542.	1.3	1
70	A Deep-Learning-Based Forecasting Ensemble to Predict Missing Data for Remote Sensing Analysis. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 5228-5236.	4.9	49
71	Spatio-temporal Prediction under Scarcity of Influencing Variables: A Hybrid Probabilistic Graph-based Approach. , 2017, , .		7
72	BESTED. , 2017, , .		9

#	ARTICLE	IF	CITATIONS
73	Analysing the impact of poor teaching on student performance. , 2016, , .		5
74	DCAP: A deep convolution architecture for prediction of urban growth. , 2016, , .		5
75	THUMP. , 2016, , .		18
76	A Geospatial Orchestration Framework on Cloud for Processing User Queries. , 2016, , .		8
77	A Probabilistic Nonlinear Model for Forecasting Daily Water Level in Reservoir. Water Resources Management, 2016, 30, 3107-3122.	3.9	44
78	Modeling Spatio-temporal Change Pattern using Mathematical Morphology. , 2016, , .		1
79	Enhancing Reliability of Vehicular Participatory Sensing Network: A Bayesian Approach. , 2016, , .		9
80	Deep-STEP: A Deep Learning Approach for Spatiotemporal Prediction of Remote Sensing Data. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1984-1988.	3.1	71
81	A cost-efficient approach for measuring Moran's index of spatial autocorrelation in geostationary satellite data. , 2016, , .		9
82	Measuring semantic similarity between land-cover classes for spatial analysis: an ontology hierarchy exploration approach. Innovations in Systems and Software Engineering, 2016, 12, 193-200.	2.1	5
83	Time-series augmentation of semantic kriging for the prediction of meteorological parameters. , 2015, , .		10
84	Performance Evaluation of Semantic Kriging: A Euclidean Vector Analysis Approach. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1185-1189.	3.1	12
85	A probabilistic approach for weather forecast using spatio-temporal inter-relationships among climate variables. , 2014, , .		21
86	Adaptive data aggregation and energy efficiency using network coding in a clustered wireless sensor network: An analytical approach. Computer Communications, 2014, 40, 65-75.	5.1	41
87	Mobile metadata assisted community database of chronic wound images. Wound Medicine, 2014, 6, 34-42.	2.7	42
88	Spatial Interpolation to Predict Missing Attributes in GIS Using Semantic Kriging. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4771-4780.	6.3	68
89	Short-term prediction of land surface temperature using multifractal detrended fluctuation analysis. , 2014, , .		7
90	Automatic Resolution of Semantic Heterogeneity in GIS: An Ontology Based Approach. Smart Innovation, Systems and Technologies, 2014, , 585-591.	0.6	8

#	ARTICLE	IF	CITATIONS
91	On Network Lifetime Expectancy With Realistic Sensing and Traffic Generation Model in Wireless Sensor Networks. IEEE Sensors Journal, 2013, 13, 2771-2779.	4.7	30
92	Ontology based framework for semantic resolution of geospatial query. , 2012, , .		11
93	Deep Recurrent Neural Network Based Monaural Speech Separation Using Recurrent Temporal Restricted Boltzmann Machines. , 0, , .		3