Santanu Rath

List of Publications by Year in Descending Order

102 papers	1,358 citations	19 h-index	33 g-index
117 ext. papers	1,805 ext. citations	1.8 avg, IF	5.51 L-index

#	Paper	IF	Citations
102	Credit Card Fraud Detection Technique by Applying Graph Database Model. *Arabian Journal for Science and Engineering*, **2021**, 46, 1-20	2.5	5
101	Information technology capability, knowledge management capability, and organizational agility: The role of environmental factors. *Journal of Management and Organization*, **2021**, 27, 148-174	1.7	4
100	Co-LSTM: Convolutional LSTM model for sentiment analysis in social big data. *Information Processing and Management*, **2021**, 58, 102435	6.3	60
99	Detecting Product Review Spammers Using Principles of Big Data. *IEEE Transactions on Engineering Management*, **2021**, 1-12	2.6	2
98	Formalization of UML Class Diagram Using Colored Petri Nets **2020**,		1
97	Detection of breast cancer tumours based on feature reduction and classification of thermograms. *Quantitative InfraRed Thermography Journal*, **2020**, 1-14	1.1	6
96	Map-Reduce-Based Centrality Detection in Social Networks: An Algorithmic Approach. *Arabian Journal for Science and Engineering*, **2020**, 45, 10199-10222	2.5	8
95	Classification of Sentiment of Reviews using Supervised Machine Learning Techniques **2020**, 143-163		
94	Genetic algorithm-based community detection in large-scale social networks. *Neural Computing and Applications*, **2020**, 32, 9649-9665	4.8	16
93	MR-IBC: MapReduce-based incremental betweenness centrality in large-scale complex networks. *Social Network Analysis and Mining*, **2020**, 10, 1	2.2	5
92	Distributed Centrality Analysis of Social Network Data Using MapReduce. *Algorithms*, **2019**, 12, 161	1.8	20
91	Formalization of SOA Design Patterns Using Model-Based Specification Technique. *Lecture Notes on Data Engineering and Communications Technologies*, **2019**, 95-101	0.4	0
90	Applying learning-based methods for recognizing design patterns. *Innovations in Systems and Software Engineering*, **2019**, 15, 87-100	1.1	7
89	Breast Cancer detection from Thermograms Using Feature Extraction and Machine Learning Techniques **2019**,		7
88	Detecting Default Payment Fraud in Credit Cards **2019**,		3
87	Effective fault prediction model developed using Least Square Support Vector Machine (LSSVM). *Journal of Systems and Software*, **2018**, 137, 686-712	3.3	46
86	Modelling the Relationship Between Information Technology Infrastructure and Organizational Agility: A Study in the Context of India. *Global Business Review*, **2018**, 19, 424-438	1.1	5

85	Real-Time Sentiment Analysis of Twitter Streaming data for Stock Prediction. *Procedia Computer Science*, **2018**, 132, 956-964	1.6	43
84	Strategic IT-business alignment and organizational agility: from a developing country perspective. *Journal of Asia Business Studies*, **2018**, 12, 422-440	2.7	10
83	Software design pattern mining using classification-based techniques. *Frontiers of Computer Science* , **2018**, 12, 908-922	2.2	12
82	Maintainability prediction of web service using support vector machine with various kernel methods. *International Journal of Systems Assurance Engineering and Management*, **2017**, 8, 205-222	1.3	6
81	Empirical validation for effectiveness of fault prediction technique based on cost analysis framework. *International Journal of Systems Assurance Engineering and Management*, **2017**, 8, 1055-1068	1.3	4
80	An empirical analysis of the effectiveness of software metrics and fault prediction model for identifying faulty classes. *Computer Standards and Interfaces*, **2017**, 53, 1-32	3.5	29
79	Empirical Assessment of Machine Learning Models for Effort Estimation of Web-based Applications **2017**,		3
78	Document-level sentiment classification using hybrid machine learning approach. *Knowledge and Information Systems*, **2017**, 53, 805-831	2.4	52
77	Using Source Code Metrics and Multivariate Adaptive Regression Splines to Predict Maintainability of Service Oriented Software **2017**,		7
76	Empirical assessment of machine learning models for agile software development effort estimation using story points. *Innovations in Systems and Software Engineering*, **2017**, 13, 191-200	1.1	24
75	Software maintainability prediction using hybrid neural network and fuzzy logic approach with parallel computing concept. *International Journal of Systems Assurance Engineering and Management*, **2017**, 8, 1487-1502	1.3	11
74	The effect of human IT capability on organizational agility: an empirical analysis. *Management Research Review*, **2017**, 40, 800-820	2.8	12
73	Using source code metrics to predict change-prone web services: A case-study on ebay services **2017**,		10
72	The impact of feature selection on maintainability prediction of service-oriented applications. *Service Oriented Computing and Applications*, **2017**, 11, 137-161	1.6	9
71	A Fast Algorithm for Enumerating Maximal Cliques in Large Scale Network **2017**,		2
70	Classification of Sentiment of Reviews using Supervised Machine Learning Techniques. *International Journal of Rough Sets and Data Analysis*, **2017**, 4, 56-74	0.3	16
69	A Bibliometric Study of ACM SIGSOFT Software Engineering Notes from 2007 to 2016. *Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM*, **2017**, 42, 1-7	0.4	1
68	An Empirical Analysis on Effective Fault Prediction Model Developed Using Ensemble Methods **2017**,		3

67	Large Scale Community Detection Using a Small World Model. *Applied Sciences (Switzerland)*, **2017**, 7, 1173	2.6	22
66	Map-Reduce based Link Prediction for Large Scale Social Network **2017**,		6
65	Nearness and Influence Based Link Prediction (NILP) in Distributed Platform. *Lecture Notes in Computer Science*, **2017**, 325-334	0.9	0
64	Transfer Learning for Cross-Project Change-Proneness Prediction in Object-Oriented Software Systems. *Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM*, **2017**, 42, 1-11	0.4	5
63	Spanning Tree Based Community Detection Using Min-Max Modularity. *Procedia Computer Science*, **2016**, 93, 1070-1076	1.6	10
62	An efficient modularity based algorithm for community detection in social network **2016**,		7
61	Fast in-memory cluster computing of sizeable microarray using spark **2016**,		2
60	Centrality Approach for Community Detection in Large Scale Network **2016**,		3
59	Classification of sentiment reviews using n-gram machine learning approach. *Expert Systems With Applications*, **2016**, 57, 117-126	7.8	267
58	Early stage software effort estimation using random forest technique based on use case points. *IET Software*, **2016**, 10, 10-17	1	28
57	Hybrid functional link artificial neural network approach for predicting maintainability of object-oriented software. *Journal of Systems and Software*, **2016**, 121, 170-190	3.3	21
56	Analysis of microarray leukemia data using an efficient MapReduce-based K-nearest-neighbor classifier. *Journal of Biomedical Informatics*, **2016**, 60, 395-409	10.2	18
55	Optimised class point approach for software effort estimation using adaptive neuro-fuzzy inference system model. *International Journal of Computer Applications in Technology*, **2016**, 54, 323	0.7	6
54	Feature Selection and Classification of Microarray Data Using Machine Learning Techniques **2016**, 213-242		1
53	Fast Computing of Microarray Data Using Resilient Distributed Dataset of Apache Spark. *Advances in Intelligent Systems and Computing*, **2016**, 171-182	0.4	0
52	Applying software metrics for the mining of design pattern **2016**,		4
51	Application of genetic algorithm as feature selection technique in development of effective fault prediction model **2016**,		2
50	Formalization of e-commerce patterns using state-based and event-based approaches **2016**,		2

49	Software design pattern recognition using machine learning techniques **2016**,		8
48	An ontology based approach for formal modeling of structural design patterns **2016**,		4
47	A Web Service Reliability Prediction Using HMM and Fuzzy Logic Models. *Procedia Computer Science* , **2016**, 93, 886-892	1.6	7
46	Scalable Information Gain Variant on Spark Cluster for Rapid Quantification of Microarray. *Procedia Computer Science*, **2016**, 93, 292-298	1.6	4
45	Investigating the structural linkage between IT capability and organizational agility. *Journal of Enterprise Information Management*, **2016**, 29, 751-773	4.4	23
44	Neuro Genetic Approach for Predicting Maintainability Using Chidamber and Kemerer Software Metrics Suite. *Advances in Intelligent Systems and Computing*, **2015**, 31-40	0.4	3
43	Empirical Validation of Neural Network Models for Agile Software Effort Estimation based on Story Points. *Procedia Computer Science*, **2015**, 57, 772-781	1.6	35
42	Predicting Object-Oriented Software Maintainability using Hybrid Neural Network with Parallel Computing Concept **2015**,		9
41	Feature Selection and Classification of Microarray Data using MapReduce based ANOVA and K-Nearest Neighbor. *Procedia Computer Science*, **2015**, 54, 301-310	1.6	32
40	Classification of microarray using MapReduce based proximal support vector machine classifier. *Knowledge-Based Systems*, **2015**, 89, 584-602	7.3	38
39	Software project risk assessment based on cost drivers and Neuro-Fuzzy technique **2015**,		1
38	Impact of Design Patterns on Quantitative Assessment of Quality Parameters **2015**,		3
37	Validating the Effectiveness of Object-Oriented Metrics for Predicting Maintainability. *Procedia Computer Science*, **2015**, 57, 798-806	1.6	21
36	Quality Assessment of Web Services Using Multivariate Adaptive Regression Splines **2015**,		3
35	Classification of Microarray Data using Functional Link Neural Network. *Procedia Computer Science*, **2015**, 57, 727-737	1.6	6
34	Meta-heuristic search based gene selection and classification of microarray data **2015**,		1
33	Application of Soft Computing Technique for Web Service Selection. *Lecture Notes in Computer Science*, **2015**, 245-248	0.9	
32	Classification of Sentimental Reviews Using Machine Learning Techniques. *Procedia Computer Science*, **2015**, 57, 821-829	1.6	72

31	Detection of design pattern using Graph Isomorphism and Normalized Cross Correlation **2015**,		7
30	Performance comparison of SOAP and REST based Web Services for Enterprise Application Integration **2015**,		25
29	Sequence-based protein superfamily classification using computational intelligence techniques: a review. *International Journal of Data Mining and Bioinformatics*, **2015**, 11, 424-57	0.5	2
28	Incorporating Security Features in Service-Oriented Architecture using Security Patterns. *Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM*, **2015**, 40, 1-6	0.4	10
27	Formalization of Web Security Patterns **2015**, 14, 14-25		9
26	Software effort estimation using machine learning techniques **2014**,		5
25	Class point approach for software effort estimation using stochastic gradient boosting technique. *Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM*, **2014**, 39, 1-6	0.4	8
24	Microarray data classification using Fuzzy K-Nearest Neighbor **2014**,		5
23	Classification of Microarray Data Using Kernel Fuzzy Inference System. *International Scholarly Research Notices*, **2014**, 2014, 769159	0	4
22	Application of Natural Language Processing in Object Oriented Software Development **2014**,		4
21	Selecting and formalizing an architectural style: A comparative study **2014**,		4
20	Class point approach for software effort estimation using various support vector regression kernel methods **2014**,		12
19	Extended Clique percolation method to detect overlapping community structure **2014**,		6
18	Review of Software Quality Metrics for Object-Oriented Methodology. *Advances in Intelligent Systems and Computing*, **2014**, 267-278	0.4	
17	Analysis of a Complex Architectural Style C2 Using Modeling Language Alloy. *Computer Science and Information Technology*, **2014**, 2, 152-164	2.3	2
16	Fuzzy-class point approach for software effort estimation using various adaptive regression methods. *CSI Transactions on ICT*, **2013**, 1, 367-380	0.4	9
15	Class point approach for software effort estimation using soft computing techniques **2013**,		5
14	Forensic Sketch Matching Using SURF. *Advances in Intelligent Systems and Computing*, **2013**, 527-537	0.4	

13	Effectiveness of Software Metrics for Object-oriented System. *Procedia Technology*, **2012**, 6, 420-427		17
12	Model to specify real time system using Z and alloy languages: A comparative approach **2012**,		1
11	PROTEIN SUPERFAMILY CLASSIFICATION USING ADAPTIVE EVOLUTIONARY RADIAL BASIS FUNCTION NETWORK. *International Journal of Computational Intelligence and Applications*, **2012**, 11, 1250026	1.2	3
10	Protein superfamily classification using Kernel Principal Component Analysis and Probabilistic Neural Networks **2011**,		3
9	Topology Control by Transmission Range Adjustment Protocol for Clustered Mobile Ad Hoc Networks. *ISRN Communications and Networking*, **2011**, 2011, 1-10		
8	An evolutionary approach for protein classification using feature extraction by artificial neural network **2010**,		1
7	An efficient technique for protein classification using feature extraction by artificial neural networks **2010**,		11
6	Gene Expression Analysis Using Clustering **2009**,		5
5	A Survey on One-Hop Clustering Algorithms in Mobile Ad Hoc Networks. *Journal of Network and Systems Management*, **2009**, 17, 183-207	2.1	65
4	FCM for Gene Expression Bioinformatics Data. *Communications in Computer and Information Science* , **2009**, 521-532	0.3	2
3	PCNN Based Hybrid Approach for Suppression of High Density of Impulsive Noise. *Communications in Computer and Information Science*, **2009**, 358-359	0.3	
2	Energy Efficient Mobility Adaptive Distributed Clustering Algorithm for Mobile Ad Hoc Network **2008**,		2
1	Mobility Based Clustering Algorithm and the Energy Consumption Model of Dynamic Nodes in Mobile Ad Hoc Network **2008**,		5