

# Sumit Soman

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

328  
citations

1163117

8  
h-index

1058476

14  
g-index

39  
all docs

39  
docs citations

39  
times ranked

321  
citing authors

#	ARTICLE	IF	CITATIONS
1	High performance EEG signal classification using classifiability and the Twin SVM. Applied Soft Computing Journal, 2015, 30, 305-318.	7.2	57
2	Recent trends in neuromorphic engineering. Big Data Analytics, 2016, 1, .	2.2	29
3	Using Brain Computer Interface for Synthesized Speech Communication for the Physically Disabled. Procedia Computer Science, 2015, 46, 292-298.	2.0	28
4	Deep learning for health informatics: Recent trends and future directions. , 2017, , .		27
5	Controlling an arduino robot using Brain Computer Interface. , 2014, , .		23
6	Twin Neural Networks for the classification of large unbalanced datasets. Neurocomputing, 2019, 343, 34-49.	5.9	19
7	EigenSample: A non-iterative technique for adding samples to small datasets. Applied Soft Computing Journal, 2018, 70, 1064-1077.	7.2	14
8	Unique Health Identifier for India: An algorithm and feasibility analysis on patient data. , 2015, , .		12
9	Improved sEMG signal classification using the Twin SVM. , 2016, , .		12
10	Benchmarking NLOpt and state-of-the-art algorithms for continuous global optimization via <mml:math altimg="si0042.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/.	8.1	12
11	Swar Continuity of Care Document for Hospital Management Systems. , 2017, , .		11
12	Large-Scale Minimal Complexity Machines Using Explicit Feature Maps. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2653-2662.	9.3	9
13	Detecting eye movements in EEG for controlling devices. , 2012, , .		8
14	QMCM: Minimizing Vapnik's bound on the VC dimension. Neurocomputing, 2020, 399, 352-360.	5.9	8
15	Twin Neural Networks for Efficient EEG Signal Classification. , 2018, , .		7
16	Streamlining Payment Workflows Using a Patient Wallet for Hospital Information Systems. , 2018, , .		7
17	Improved classification of motor imagery datasets for BCI by using approximate entropy and WOSF features. , 2014, , .		6
18	A distributed architecture for hospital management systems with synchronized EHR. CSI Transactions on ICT, 2020, 8, 355-365.	1.0	6

#	ARTICLE	IF	CITATIONS
19	Transfer learning using adaptive SVM for image classification. , 2013, , .		4
20	The MC-ELM: Learning an ELM-like network with minimum VC dimension. , 2015, , .		4
21	Enhancing IACO R Local Search by Mtsls1-BFGS for Continuous Global Optimization. , 2015, , .		3
22	Ultra-Sparse Classifiers Through Minimizing the VC Dimension in the Empirical Feature Space. Neural Processing Letters, 2018, 48, 881-913.	3.2	3
23	Non-Mercer Large Scale Multiclass Least Squares Minimal Complexity Machines. , 2018, , .		3
24	Integrating Drug Terminologies with Hospital Management Information Systems. , 2019, , .		3
25	Enhancing Incremental Ant Colony Algorithm for Continuous Global Optimization. , 2015, , .		2
26	HealthAnalytic: A concept application for customizable visualization and analysis of health informatics datasets. , 2016, , .		2
27	The Twin SVM Minimizes the Total Risk. , 2017, , 395-405.		2
28	Neurodynamical classifiers with low model complexity. Neural Networks, 2020, 132, 405-415.	5.9	2
29	Eigen-MM: EigenAnt Modified Mtsls1 for local search. Swarm and Evolutionary Computation, 2018, 43, 166-183.	8.1	1
30	Sparsity in function and derivative approximation via the empirical feature space. Information Sciences, 2020, 512, 402-415.	6.9	1
31	Minimal Complexity Machines Under Weight Quantization. IEEE Transactions on Computers, 2021, 70, 1189-1198.	3.4	1
32	Kernel optimization using conformal maps for the minimal complexity machine. Engineering Applications of Artificial Intelligence, 2021, 106, 104493.	8.1	1
33	EigenAnt assisted IACO for continuous global optimization. , 2016, , .		0
34	An Approach for Implementation of SNOMED-CT in Healthcare Information Systems. , 2017, , .		0
35	Learning from Low Training Data using Classifiers with Derivative Constraints. , 2019, , .		0
36	Predicting Hospital Bed Occupancy: A Pilot Evaluation for Tertiary Hospitals in India. Advances in Intelligent Systems and Computing, 2022, , 155-163.	0.6	0

#	ARTICLE	IF	CITATIONS
37	Vulnerability of Control Word in Conditional Access Systems Environment. Advanced Science Letters, 2014, 20, 487-491.	0.2	0
38	High Performance EEG Signal Classification using Classifiability and the Twin SVM. Frontiers in Computational Neuroscience, 0, 9, .	2.1	0