Raju S Bapi

List of Publications by Year
in descending order

87 papers	1,579 citations	430843 18 h-index	361001 35 g-index
94 all docs	94 docs citations	94 times ranked	2010 citing authors

#	Article	IF	Citations
1	What do the basal ganglia do? A modeling perspective. Biological Cybernetics, 2010, 103, 237-253.	1.3	161
2	Evidence for effector independent and dependent representations and their differential time course of acquisition during motor sequence learning. Experimental Brain Research, 2000, 132, 149-162.	1.5	153
3	Churn prediction using comprehensible support vector machine: An analytical CRM application. Applied Soft Computing Journal, 2014, 19, 31-40.	7.2	133
4	fMRI investigation of cortical and subcortical networks in the learning of abstract and effector-specific representations of motor sequences. NeuroImage, 2006, 32, 714-727.	4.2	94
5	Rough clustering of sequential data. Data and Knowledge Engineering, 2007, 63, 183-199.	3.4	79
6	Atypical Flexibility in Dynamic Functional Connectivity Quantifies the Severity in Autism Spectrum Disorder. Frontiers in Human Neuroscience, 2019, 13, 6.	2.0	78
7	Metastability in Senescence. Trends in Cognitive Sciences, 2017, 21, 509-521.	7.8	60
8	Cerebral microbleeds are related to loss of white matter structural integrity. Neurology, 2013, 81, 1930-1937.	1.1	59
9	Delaying Onset of Dementia: Are Two Languages Enough?. Behavioural Neurology, 2014, 2014, 1-8.	2.1	50
10	Unbalanced data classification using extreme outlier elimination and sampling techniques for fraud detection. , 2007, , .		41
11	Support vector regression based hybrid rule extraction methods for forecasting. Expert Systems With Applications, 2010, 37, 5577-5589.	7.6	39
12	A survey of distance/similarity measures for categorical data. , 2014, , .		39
13	Bilingualism delays the onset of behavioral but not aphasic forms of frontotemporal dementia. Neuropsychologia, 2017, 99, 207-212.	1.6	38
14	Does the regulation of local excitationâ€“inhibition balance aid in recovery of functional connectivity? A computational account. NeuroImage, 2016, 136, 57-67.	4.2	32
15	Machine learning models to predict the progression from early to late stages of papillary renal cell carcinoma. Computers in Biology and Medicine, 2018, 100, 92-99.	7.0	31
16	Reading different orthographies: an fMRI study of phrase reading in Hindiâ€“English bilinguals. Reading and Writing, 2010, 23, 239-255.	1.7	30
17	Changing the structure of complex visuo-motor sequences selectively activates the fronto-parietal network. NeuroImage, 2012, 59, 1180-1189.	4.2	30
18	Protein ligand interaction database (PLID). Computational Biology and Chemistry, 2008, 32, 387-390.	2.3	27

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19	Analysis of E.coli promoter recognition problem in dinucleotide feature space. Bioinformatics, 2007, 23, 582-588.	4.1	23
20	A visual sense of number emerges from the dynamics of a recurrent on-center off-surround neural network. Brain Research, 2014, 1582, 114-124.	2.2	22
21	Feature selection using correlation fractal dimension: Issues and applications in binary classification problems. Applied Soft Computing Journal, 2008, 8, 555-563.	7.2	21
22	Classification of ECG Heartbeat Arrhythmia: A Review. Procedia Computer Science, 2020, 171, 679-688.	2.0	20
23	Resting state dynamics meets anatomical structure: Temporal multiple kernel learning (tMKL) model. NeuroImage, 2019, 184, 609-620.	4.2	19
24	A New Similarity Metric for Sequential Data. International Journal of Data Warehousing and Mining, 2010, 6, 16-32.	0.6	18
25	Analysis of n-Gram based Promoter Recognition Methods and Application to Whole Genome Promoter Prediction. In Silico Biology, 2009, 9, S1-S16.	0.9	17
26	A Unified Theoretical Framework for Cognitive Sequencing. Frontiers in Psychology, 2016, 7, 1821.	2.1	17
27	Two swarm intelligence approaches for tuning extreme learning machine. International Journal of Machine Learning and Cybernetics, 2018, 9, 1271-1283.	3.6	16
28	Artificial bee colony algorithm for clustering: an extreme learning approach. Soft Computing, 2016, 20, 3163-3176.	3.6	15
29	Near-Infrared Spectroscopy â€“ Electroencephalography-Based Brain-State-Dependent Electrotherapy: A Computational Approach Based on Excitationâ€“Inhibition Balance Hypothesis. Frontiers in Neurology, 2016, 7, 123.	2.4	14
30	Age, Disease, and Their Interaction Effects on Intrinsic Connectivity of Children and Adolescents in Autism Spectrum Disorder Using Functional Connectomics. Brain Connectivity, 2018, 8, 407-419.	1.7	14
31	Rule extraction using Support Vector Machine based hybrid classifier. , 2008, , .		11
32	Cortical network for reading linear words in an alphasyllabary. Reading and Writing, 2011, 24, 697-707.	1.7	11
33	Do We Expect Women to Look Happier Than They Are? A Test of Gender-Dependent Perceptual Correction. Perception, 2018, 47, 232-235.	1.2	10
34	An Unbalanced Data Classification Model Using Hybrid Sampling Technique for Fraud Detection. , 2007, , 341-348.		8
35	Modeling the sub-cellular signaling pathways involved in reinforcement learning at the striatum. Progress in Brain Research, 2007, 168, 193-206.	1.4	8
36	Motor Chunking in Internally Guided Sequencing. Brain Sciences, 2021, 11, 292.	2.3	8

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37	Time series Clustering and Analysis of ECG heart-beats using Dynamic Time Warping. , 2011, , .		7
38	Role of CAMKII in reinforcement learning: a computational model of glutamate and dopamine signaling pathways. Biological Cybernetics, 2011, 104, 397-424.	1.3	6
39	Class imbalance and its effect on PCA preprocessing. International Journal of Knowledge Engineering and Soft Data Paradigms, 2014, 4, 272.	0.0	6
40	Evidence of stimulus correlated empathy modes â€“ Group ICA of fMRI data. Brain and Cognition, 2015, 94, 32-43.	1.8	6
41	Metastability of cortical BOLD signals in maturation and senescence. , 2017, , .		6
42	StepEncog: A Convolutional LSTM Autoencoder for Near-Perfect fMRI Encoding. , 2019, , .		6
43	Expansion and Compression of Time Correlate with Information Processing in an Enumeration Task. PLoS ONE, 2015, 10, e0135794.	2.5	6
44	Effects of Meditation on Structural Changes of the Brain in Patients With Mild Cognitive Impairment or Alzheimerâ€™s Disease Dementia. Frontiers in Human Neuroscience, 2021, 15, 728993.	2.0	6
45	An Exploratory Investigation of Functional Network Connectivity of Empathy and Default Mode Networks in a Free-Viewing Task. Brain Connectivity, 2015, 5, 384-400.	1.7	5
46	A Novel ELM K-Means Algorithm for Clustering. Lecture Notes in Computer Science, 2015, , 212-222.	1.3	5
47	Modelling relative recency discrimination tasks using a stochastic working memory model. BioSystems, 2000, 58, 195-202.	2.0	4
48	Rule extraction from support vector machines: a hybrid approach for solving classification and regression problems. International Journal of Information and Decision Sciences, 2011, 3, 265.	0.1	4
49	Reinforcement learning and dopamine in the striatum: A modeling perspective. Neurocomputing, 2014, 138, 27-40.	5.9	4
50	Attention mediates the influence of numerical magnitude on temporal processing. Scientific Reports, 2021, 11, 11030.	3.3	4
51	Support Vector Machine based Hybrid Classifiers and Rule Extraction thereof. , 2010, , 404-426.		4
52	HED-ID: An Affective Adaptation Model Explaining the Intensity-Duration Relationship of Emotion. IEEE Transactions on Affective Computing, 2020, 11, 736-750.	8.3	3
53	Moodâ€congruent biases in facial emotion perception and their gender dependence. International Journal of Psychology, 2021, 56, 378-386.	2.8	3
54	Numerical Magnitude Affects Accuracy but Not Precision of Temporal Judgments. Frontiers in Human Neuroscience, 2020, 14, 629702.	2.0	3

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55	Brain Affective System Inspired Control Architecture: An Application to Nonlinear System. IEEE Access, 2021, 9, 86565-86580.	4.2	3
56	fMRI Semantic Category Decoding Using Linguistic Encoding of Word Embeddings. Lecture Notes in Computer Science, 2018, , 3-15.	1.3	3
57	Employing Temporal Properties of Brain Activity for Classifying Autism Using Machine Learning. Lecture Notes in Computer Science, 2019, , 193-200.	1.3	3
58	IMLE-Net: An Interpretable Multi-level Multi-channel Model for ECG Classification. , 2021, , .		3
59	Cascaded Multi-level Promoter Recognition of E. coli Using Dinucleotide Features. , 2008, , .		2
60	A knowledge driven supervised learning approach to identify gene network of differentially up-regulated genes during neuronal senescence in Rattus norvegicus. BioSystems, 2015, 135, 9-14.	2.0	2
61	A biologically inspired neuronal model of reward prediction error computation. , 2017, , .		2
62	Cognitive and Motor Learning in Internally-Guided Motor Skills. Frontiers in Psychology, 2021, 12, 604323.	2.1	2
63	Chunking Phenomenon in Complex Sequential Skill Learning in Humans. Lecture Notes in Computer Science, 2004, , 294-299.	1.3	2
64	Advances in Classification of Sequence Data. , 2008, , 143-174.		2
65	Study of Diversity and Similarity of Large Chemical Databases Using Tanimoto Measure. Communications in Computer and Information Science, 2011, , 40-50.	0.5	2
66	Temporal Dynamics of the Brain Using Variational Bayes Hidden Markov Models: Application in Autism. Lecture Notes in Computer Science, 2019, , 121-130.	1.3	2
67	Majority filter-based minority prediction (MFMP): An approach for unbalanced datasets. , 2008, , .		1
68	Local and Global Intrinsic Dimensionality Estimation for Better Chemical Space Representation. Lecture Notes in Computer Science, 2011, , 329-338.	1.3	1
69	State estimation of nonlinear system through Particle Filter based Recurrent Neural Networks. , 2011, , .		1
70	DEKF based Recurrent Neural Network for state estimation of nonlinear dynamical systems. , 2011, , .		1
71	Inter Subject Correlation of Brain Activity during Visuo-Motor Sequence Learning. Lecture Notes in Computer Science, 2014, , 35-41.	1.3	1
72	Comparative analysis of ELM and No-Prop algorithms. , 2016, , .		1

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73	The art of scaling up : A computational account on action selection in basal ganglia. , 2017, , .		1
74	Unbalanced Sequential Data Classification using Extreme Outlier Elimination and Sampling Techniques. , 2012, , 83-93.		1
75	Promoter Recognition using dinucleotide Features : A Case Study for E.Coli. , 2006, , .		0
76	Concept Pre-digestion Method for Image Relevance Reinforcement Learning. , 2007, , .		0
77	A Computational study of pre-synaptic re-uptake of dopamine on phosphorylation of DARPP-32. , 2009, , .		0
78	Chunking During Learning of Visuomotor Sequences with Spatial and Arbitrary Rules: Preliminary Findings. Psychological Studies, 2012, 57, 22-28.	1.0	0
79	A new probabilistic active sample selection algorithm for class imbalance problem. International Journal of Knowledge Engineering and Soft Data Paradigms, 2013, 4, 85.	0.0	0
80	Subjective Distortions of Time Influence Rapid Information Accrual. Procedia, Social and Behavioral Sciences, 2014, 126, 127-128.	0.5	0
81	What Do RDMs Capture in Brain Responses and Computational Models?. Studies in Big Data, 2021, , 1-15.	1.1	0
82	Correlating Binding Site Residues of the Protein and Ligand Features to Its Functionality. Lecture Notes in Computer Science, 2011, , 166-173.	1.3	0
83	Sequence Pattern Mining for Web Logs. , 2012, , 237-243.		0
84	Analysis of Kinase Inhibitors and Druggability of Kinase-Targets Using Machine Learning Techniques. , 2012, , 155-165.		0
85	Stochastic Leaky Integrator Model for Interval Timing. Lecture Notes in Computer Science, 2014, , 13-22.	1.3	0
86	Identification of Biomarkers for Stage Prediction in Papillary Renal Cell Carcinoma. Canadian Journal of Biotechnology, 2017, 1, 72-72.	0.3	0
87	Analysis of Kinase Inhibitors and Druggability of Kinase-Targets Using Machine Learning Techniques. , 0, , 937-947.		0