

A G Ramakrishnan

List of Publications by Year in descending order

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Version: 2024-02-01

178
papers

2,041
citations

394286

19
h-index

395590

33
g-index

184
all docs

184
docs citations

184
times ranked

1055
citing authors

#	ARTICLE	IF	CITATIONS
1	ECG coding by wavelet-based linear prediction. IEEE Transactions on Biomedical Engineering, 1997, 44, 1253-1261.	2.5	110
2	Word level multi-script identification. Pattern Recognition Letters, 2008, 29, 1218-1229.	2.6	106
3	Epoch Extraction Based on Integrated Linear Prediction Residual Using Plosion Index. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 2471-2480.	3.8	96
4	Effect of two selected yogic breathing techniques of heart rate variability. Indian Journal of Physiology and Pharmacology, 1998, 42, 467-72.	0.4	78
5	Script identification in printed bilingual documents. Sadhana - Academy Proceedings in Engineering Sciences, 2002, 27, 73-82.	0.8	73
6	Detection and classification of diabetic retinopathy using retinal images. , 2011, , .		71
7	Comparison of Elastic Matching Algorithms for Online Tamil Handwritten Character Recognition. , , .		50
8	Decoding Covert Speech From EEG-A Comprehensive Review. Frontiers in Neuroscience, 2021, 15, 642251.	1.4	50
9	Machine recognition of online handwritten Devanagari characters. , 2005, , .		48
10	Fetal lung maturity analysis using ultrasound image features. IEEE Transactions on Information Technology in Biomedicine, 2002, 6, 38-45.	3.6	47
11	Principal component analysis for online handwritten character recognition. , 2004, , .		45
12	Threshold-Independent QRS Detection Using the Dynamic Plosion Index. IEEE Signal Processing Letters, 2014, 21, 554-558.	2.1	45
13	An Exploration of Log-Mel Spectrogram and MFCC Features for Alzheimer's Dementia Recognition from Spontaneous Speech. , 2021, , .		45
14	Modification of pitch using DCT in the source domain. Speech Communication, 2004, 42, 143-154.	1.6	39
15	Heart rate variability as an index of cue reactivity in alcoholics. Biological Psychiatry, 1998, 43, 544-546.	0.7	37
16	A Complete Tamil Optical Character Recognition System. Lecture Notes in Computer Science, 2002, , 53-57.	1.0	32
17	Contextual encoding in uniform and adaptive mesh-based lossless compression of MR images. IEEE Transactions on Medical Imaging, 2005, 24, 1199-1206.	5.4	30
18	Detection of the closure-burst transitions of stops and affricates in continuous speech using the plosion index. Journal of the Acoustical Society of America, 2014, 135, 460-471.	0.5	30

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19	Divide and conquer technique in online handwritten Kannada character recognition. , 2009, , .		29
20	Electrophysiological and Neuroimaging Studies “ During Resting State and Sensory Stimulation in Disorders of Consciousness: A Review. Frontiers in Neuroscience, 2020, 14, 555093.	1.4	29
21	Spectral analysis of noise in the neonatal intensive care unit. Indian Journal of Pediatrics, 2008, 75, 217-22.	0.3	26
22	Power-law transformation for enhanced recognition of born-digital word images. , 2012, , .		23
23	Attention-Feedback Based Robust Segmentation of Online Handwritten Isolated Tamil Words. ACM Transactions on Asian Language Information Processing, 2013, 12, 1-25.	0.8	22
24	Machine Recognition of Printed Kannada Text. Lecture Notes in Computer Science, 2002, , 37-48.	1.0	21
25	OCR in Indian Scripts: A Survey. IETE Technical Review (Institution of Electronics and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 502 2.1 21		21
26	Voice source characterization using pitch synchronous discrete cosine transform for speaker identification. Journal of the Acoustical Society of America, 2015, 137, EL469-EL475.	0.5	21
27	Decoding Imagined Speech using Wavelet Features and Deep Neural Networks. , 2019, , .		21
28	Knuckle based hand correlation for user authentication. , 2006, , .		19
29	Quality Assessment in Magnetic Resonance Images. Critical Reviews in Biomedical Engineering, 2010, 38, 127-141.	0.5	19
30	OTCYMIST: Otsu-Canny Minimal Spanning Tree for Born-Digital Images. , 2012, , .		18
31	Recognition of Alzheimer’s Dementia From the Transcriptions of Spontaneous Speech Using fastText and CNN Models. Frontiers in Computer Science, 2021, 3, .	1.7	17
32	Reliable sleep staging of unseen subjects with fusion of multiple EEG features and RUSBoost. Biomedical Signal Processing and Control, 2021, 70, 103061.	3.5	17
33	Wavelet Domain Nonlinear Filtering for Evoked Potential Signal Enhancement. Journal of Biomedical Informatics, 2000, 33, 431-446.	0.7	16
34	Reconstruction of EEG from limited channel acquisition using estimated signal correlation. Biomedical Signal Processing and Control, 2016, 27, 164-173.	3.5	16
35	HVS Inspired System for Script Identification in Indian Multi-script Documents. Lecture Notes in Computer Science, 2006, , 380-389.	1.0	16
36	Script Identification in Printed Bilingual Documents. Lecture Notes in Computer Science, 2002, , 13-24.	1.0	15

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37	Decoding Imagined Speech From EEG Using Transfer Learning. IEEE Access, 2021, 9, 135371-135383.	2.6	15
38	Lipi Gnani. ACM Transactions on Asian and Low-Resource Language Information Processing, 2020, 19, 1-23.	1.3	15
39	Comparison of HMM and SDTW for Tamil handwritten character recognition. , 2010, , .		14
40	NESP: Nonlinear enhancement and selection of plane for optimal segmentation and recognition of scene word images. Proceedings of SPIE, 2013, , .	0.8	14
41	Global and local features for recognition of online handwritten numerals and Tamil characters. , 2013, , .		14
42	An Efficient Montgomery Multiplication Algorithm and RSA Cryptographic Processor. , 2007, , .		13
43	MSCE: An Edge-Preserving Robust Loss Function for Improving Super-Resolution Algorithms. Lecture Notes in Computer Science, 2018, , 566-575.	1.0	13
44	Automatic Speech Recognition for Sanskrit. , 2019, , .		12
45	ECG Compression by Multirate Processing of Beats. Journal of Biomedical Informatics, 1996, 29, 407-417.	0.7	11
46	An Investigation into the Feasibility of Fetal Lung Maturity Prediction Using Statistical Textural Features. Ultrasonic Imaging, 2001, 23, 39-54.	1.4	11
47	An Improved Online Tamil Character Recognition Engine Using Post-Processing Methods. , 2009, , .		11
48	Creation of a Huge Annotated Database for Tamil and Kannada OHR. , 2010, , .		11
49	A Robust Two Level Classification Algorithm for Text Localization in Documents. , 2007, , 96-105.		11
50	Optimal Feature Extraction for Bilingual OCR. Lecture Notes in Computer Science, 2002, , 25-36.	1.0	10
51	Online Handwriting Recognition of Tamil Script Using Fractal Geometry. , 2011, , .		10
52	Multi-script and Multi-oriented Text Localization from Scene Images. Lecture Notes in Computer Science, 2012, , 1-14.	1.0	10
53	Estimation of voice-onset time in continuous speech using temporal measures. Journal of the Acoustical Society of America, 2014, 136, EL122-EL128.	0.5	10
54	Bigram Language Models and Reevaluation Strategy for Improved Recognition of Online Handwritten Tamil Words. ACM Transactions on Asian and Low-Resource Language Information Processing, 2015, 14, 1-28.	1.3	10

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55	Text Localization and Extraction from Complex Color Images. Lecture Notes in Computer Science, 2005, , 486-493.	1.0	10
56	Improving Facial Emotion Recognition Systems with Crucial Feature Extractors. Lecture Notes in Computer Science, 2019, , 268-279.	1.0	10
57	MAST. , 2011, , .		9
58	Design and development of a large vocabulary, continuous speech recognition system for Tamil. , 2017, , .		9
59	Entropy Based Skew Correction of Document Images. , 2007, , 495-502.		9
60	Prototype learning methods for online handwriting recognition. , 2005, , .		8
61	Continuity metric for unit selection based text-to-speech synthesis. , 2010, , .		8
62	Unrestricted Kannada online handwritten akshara recognition using SDTW. , 2010, , .		8
63	Online Handwritten Kannada Word Recognizer with Unrestricted Vocabulary. , 2010, , .		8
64	Language models for online handwritten Tamil word recognition. , 2012, , .		8
65	Improved recognition of aged Kannada documents by effective segmentation of merged characters. , 2014, , .		8
66	A research bed for unit selection based text to speech synthesis. , 2008, , .		7
67	Cumulative Impulse Strength for Epoch Extraction. IEEE Signal Processing Letters, 2016, 23, 424-428.	2.1	7
68	VR Glasses based Measurement of Responses to Dichoptic Stimuli: A Potential Tool for Quantifying Amblyopia?. , 2020, 2020, 5106-5110.		7
69	Binary State Prediction of Sleep or Wakefulness Using EEG and EOG Features. , 2020, , .		7
70	Low-Resource End-to-end Sanskrit TTS using Tacotron2, WaveGlow and Transfer Learning. , 2020, , .		7
71	Can we identify the category of imagined phoneme from EEG?. , 2021, 2021, 459-462.		7
72	Classification of Phonological Categories in Imagined Speech using Phase Synchronization Measure. , 2021, 2021, 2226-2229.		7

#	ARTICLE	IF	CITATIONS
73	Automatic text block separation in document images. , 2006, , .		6
74	WAVELET-BASED ESTIMATION OF HEMODYNAMIC RESPONSE FUNCTION FROM fMRI DATA. International Journal of Neural Systems, 2006, 16, 125-138.	3.2	6
75	Block-based feature detection and matching for mosaicing of camera-captured document images. , 2007, , .		6
76	Performance enhancement of online handwritten Tamil symbol recognition with reevaluation techniques. Pattern Analysis and Applications, 2014, 17, 587-609.	3.1	6
77	Subband analysis of linear prediction residual for the estimation of glottal closure instants. , 2014, , .		6
78	A new approach for upscaling document images for improving their quality. , 2017, , .		6
79	Hierarchical Classification of Speaker and Background Noise and Estimation of SNR Using Sparse Representation. , 0, , .		6
80	An Efficient Sleep Scoring Method using Visibility Graph and Temporal Features of Single-Channel EEG. , 2021, 2021, 6306-6309.		6
81	A Novel Hierarchical Classification Scheme for Online Tamil Character Recognition. Proc Int Conf Doc Anal Recognit, 2007, , .	0.0	5
82	CCD: Connected Component Descriptor for Robust Mosaicing of Camera-Captured Document Images. , 2008, , .		5
83	DYNAMIC SPACE WARPING OF STROKES FOR RECOGNITION OF ONLINE HANDWRITTEN CHARACTERS. International Journal of Pattern Recognition and Artificial Intelligence, 2009, 23, 925-943.	0.7	5
84	Recognition of Kannada characters extracted from scene images. , 2012, , .		5
85	Automatic user customized brain switch. , 2016, , .		5
86	Efficient document-image super-resolution using convolutional neural network. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	0.8	5
87	DNN Based Speech Enhancement for Unseen Noises Using Monte Carlo Dropout. , 2018, , .		5
88	Data-pooling and multi-task learning for enhanced performance of speech recognition systems in multiple low resourced languages. , 2019, , .		5
89	Effects of Modifying the Input Features and the Loss Function on Improving Emotion Classification. , 2019, , .		5
90	An Improved EEG Acquisition Protocol Facilitates Localized Neural Activation. Lecture Notes in Electrical Engineering, 2020, , 267-281.	0.3	5

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91	DeepInterpolation: fusion of multiple interpolations and CNN to obtain super-resolution. IET Image Processing, 2020, 14, 4000-4011.	1.4	5
92	Pseudo Complex Cepstrum Using Discrete Cosine Transform. International Journal of Speech Technology, 2005, 8, 181-191.	1.4	4
93	Edge-based connected component approach for skew correction of complex document images. , 2007, , .		4
94	A Blind Indic Script Recognizer for Multi-script Documents. Proc Int Conf Doc Anal Recognit, 2007, , .	0.0	4
95	Honeypots: Deployment and Data Forensic Analysis. , 2007, , .		4
96	Composite MR image reconstruction and unaliasing for general trajectories using neural networks. Magnetic Resonance Imaging, 2010, 28, 1468-1484.	1.0	4
97	MOSAICS: Multiplexed optimal signal acquisition involving compressed sensing. , 2010, , .		4
98	Transliteration of Indic languages to Kannada with a user-friendly interface. , 2015, , .		4
99	Sleep-awake Classification using EEG Band-power-ratios and Complexity Measures. , 2020, , .		4
100	Low cost calibrated mechanical noisemaker for hearing screening of neonates in resource constrained settings. Indian Journal of Medical Research, 2012, 135, 170-6.	0.4	4
101	Automated classification of EEG into meditation and non-meditation epochs using common spatial pattern, linear discriminant analysis, and LSTM. , 2021, , .		4
102	Binary classification of meditative state from the resting state using EEG. , 2021, , .		4
103	Document Page Layout Analysis Using Harris Corner Points. , 2006, , .		3
104	Automatic Seal Information Reader. , 2007, , .		3
105	Bauer Method of MVDR Spectral Factorization for Pitch Modification in the Source Domain. , 2007, , .		3
106	Orthogonal LDA in PCA Transformed Subspace. , 2010, , .		3
107	A fast algorithm for speech polarity detection using long-term linear prediction. , 2014, , .		3
108	Calibration-free SSVEP-based BCI Switch. , 2019, , .		3

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109	R-wave Amplitude Changes and Atypical Heart Rate Changes Accompanying Breath Hold During Low Breathing Rates. , 2020, 2020, 2667-2670.		3
110	Characterization of Meditation EEG based on Consistency of Covariance Matrices over Time. , 2020, , .		3
111	Electrophysiological correlates of hanseniasis. International Journal of Leprosy and Other Mycobacterial Diseases, 1995, 63, 395-408.	0.3	3
112	DCT based pseudo complex cepstrum. , 2002, , .		2
113	Text Localization and Extraction from Complex Gray Images. Lecture Notes in Computer Science, 2006, , 776-785.	1.0	2
114	Language Independent Automated Segmentation of Speech using Bach scale filter-banks. , 2006, , .		2
115	Perceptual-MVDR based analysis-synthesis of pitch synchronous frames for pitch modification. , 2008, , .		2
116	Improved kâ€™t BLAST for fast fMR imaging. Journal of Magnetic Resonance, 2010, 204, 273-280.	1.2	2
117	Multiplexed Compressed Sensing for general frequency sparse signals. , 2011, , .		2
118	Sub-band envelope approach to obtain instants of significant excitation in speech. , 2012, , .		2
119	Low order anti-aliasing filters for sparse signals in embedded applications. Sadhana - Academy Proceedings in Engineering Sciences, 2013, 38, 397-405.	0.8	2
120	Evaluation of document binarization using eigen value decomposition. , 2013, , .		2
121	Reduction of the order of anti-aliasing filters in embedded avionics data acquisition. , 2014, , .		2
122	Recognition of open vocabulary, online handwritten pages in Tamil script. , 2014, , .		2
123	Voice activity detection from the breathing pattern of the speaker. , 2017, , .		2
124	A Joint Enhancement-Decoding Formulation for Noise Robust Phoneme Recognition. , 2017, , .		2
125	Splitting Merged Characters of Kannada Benchmark Dataset using Simplified Paired-Valleys and L-Cut. , 2019, , .		2
126	Improving the Perceptual Quality of Document Images Using Deep Neural Network. Lecture Notes in Computer Science, 2019, , 448-459.	1.0	2

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127	Gamma Enhanced Binarization - An Adaptive Nonlinear Enhancement of Degraded Word Images for Improved Recognition of Split Characters. , 2019, , .		2
128	Scattering transform inspired filterbank learning from raw speech for better acoustic modeling. , 2019, , .		2
129	Anomaly in respiratory sinus arrhythmia â€“ multiple heart rate variability cycles within each breathing cycle at low breath rates with breath holds. , 2020, , .		2
130	A Pilot Study on Amblyopic Children for Possible Quantification of the Left/Right Mismatch. , 2020, , .		2
131	CTC-Based End-To-End ASR for the Low Resource Sanskrit Language with Spectrogram Augmentation. , 2021, , .		2
132	A Class-Specific Speech Enhancement for Phoneme Recognition: A Dictionary Learning Approach. , 0, , .		2
133	Improvement of Image Denoising Algorithms by Preserving the Edges. Lecture Notes in Computer Science, 2019, , 496-506.	1.0	2
134	Investigation ofÂDifferent G2P Schemes forÂSpeech Recognition inÂSanskrit. Lecture Notes in Computer Science, 2021, , 536-547.	1.0	2
135	KannadaPado: Mobile-based recognition and cross-lingual transcription of camera captured text in Kannada. , 2021, , .		2
136	Efficient Human-Quality Kannada TTS using Transfer Learning on NVIDIA's Tacotron2. , 2021, , .		2
137	Increased Entropy of Gamma Oscillations in the Frontal Region during Meditation. , 2021, 2021, 787-790.		2
138	Central conduction in leprosy — A multidomain study. , 1992, , .		1
139	Pseudo Complex Cepstrum Using Discrete Cosine Transform. Journal of Sol-Gel Science and Technology, 1997, 8, 181-191.	1.1	1
140	Heart Rate Variability as a Predictor for Response to Electro-Convulsive Therapy in Major Depressive Disorder. Indian Journal of Psychological Medicine, 2004, 26, 31-39.	0.6	1
141	Binarization and Localization of Text Images Captured on a Mobile Phone Camera. , 2006, , .		1
142	Online Character Recognition using Regression Techniques. , 2008, , .		1
143	Panmozhi Vaayil - A Multilingual Indic Keyboard Interface for Business and Personal Use. Communications in Computer and Information Science, 2011, , 278-283.	0.4	1
144	Frequency detection from multiplexed compressed sensing of noisy signals. , 2011, , .		1

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145	Compressed acquisition of correlated signals. , 2012, , .		1
146	Cosine similarity based dictionary learning and source recovery for classification of diverse audio sources. , 2016, , .		1
147	Relationship between spoken Indian languages by clustering of long distance bigram features of speech. , 2016, , .		1
148	Classification of bacterial morphotypes from images of ZN-stained sputum-smears towards diagnosing drug-resistant TB. , 2016, , .		1
149	Binary classification posed as a quadratically constrained quadratic programming and solved using particle swarm optimization. Sadhana - Academy Proceedings in Engineering Sciences, 2016, 41, 289.	0.8	1
150	Computationally Efficient Approaches for Image Style Transfer. , 2018, , .		1
151	Inversion detection in text document images. , 0, , .		1
152	Classification of place-of-articulation of stop consonants using temporal analysis. , 0, , .		1
153	Estimation of the Vocal Tract Length of Vowel Sounds Based on the Frequency of the Significant Spectral Valley. , 0, , .		1
154	Fuzzy entropy as a measure of EEG complexity during Rajayoga practice in long-term meditators. , 2020, , .		1
155	Redesign of the COVID-19 ICUs to Save the Corona Warriors. , 2020, , .		1
156	Common Spatial Pattern Based Data Augmentation Technique for Decoding Imagined Speech. , 2021, , .		1
157	Brain Functional Connectivity as Biomarker for Propofol-Induced Alterations of Consciousness. , 2021, 2021, 1928-1931.		1
158	Unsupervised Domain Adaptation Schemes for Building ASR in Low-Resource Languages. , 2021, , .		1
159	Modelling of compound nerve action potentials health and disease. , 1992, , .		0
160	Extraction of significant nerve conduction predictors in early diagnosis of leprosy. , 1992, , .		0
161	Polarization-rich continuous wave direct imaging: modeling and visualization. Applied Optics, 2006, 45, 4344.	2.1	0
162	Can Biological Motion be a Biometric?. , 2006, , .		0

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163	Comparative Study of Filter-Bank Mean-Energy Distance for Automated Segmentation of Speech Signals. , 2007, , .		0
164	Discrimination of Sonorants from Fricatives Using a Scalar Feature Derived from Linear Prediction Coefficients. , 2018, , .		0
165	Relative occurrences and difference of extrema for detection of transitions between broad phonetic classes. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	0.8	0
166	Improving generalization of Monte Carlo dropout based DNN ensemble model for speech enhancement and results on real world, traffic noise. , 2019, , .		0
167	Cardiorespiratory and Endocrine Mechanisms Behind the Effectiveness of Pranayama. Advances in Medical Diagnosis, Treatment, and Care, 2021, , 49-60.	0.1	0
168	Evoked Potential Signal Estimation Using Gaussian Radial Basis Function Network. Lecture Notes in Computer Science, 2001, , 630-635.	1.0	0
169	Wavelet-Based Estimation of Hemodynamic Response Function. Lecture Notes in Computer Science, 2004, , 1285-1291.	1.0	0
170	Resolving Ambiguities in Confused Online Tamil Characters with Post Processing Algorithms. Lecture Notes in Computer Science, 2009, , 406-413.	1.0	0
171	An error correction scheme for GCI detection algorithms using pitch smoothness criterion. , 0, , .		0
172	Intrinsic-cum-extrinsic normalization of formant data of vowels. Journal of the Acoustical Society of America, 2016, 140, EL446-EL451.	0.5	0
173	Color Components Clustering and Power Law Transform for the Effective Implementation of Character Recognition in Color Images. Advances in Intelligent Systems and Computing, 2018, , 131-139.	0.5	0
174	An Objective Critical Distance Measure Based on the Relative Level of Spectral Valley. , 0, , .		0
175	Pitch-synchronous Discrete Cosine Transform Features for Speaker Identification and Verification. , 2020, , .		0
176	Factors behind higher COVID-19 recovery and lower fatality rates in India - need for a focused study. , 2021, , .		0
177	An Elegant Experimental Setup for Accurate Presentation of Dichoptic Stimuli. , 2021, , .		0
178	Midline EEG Functional Connectivity As Biomarker for Conscious States in Sleep and Wakefulness. , 2021, 2021, 1924-1927.		0