

# 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	Decoding Imagined Speech From EEG Using Transfer Learning. IEEE Access, 2021, 9, 135371-135383.	2.6	15
2	An Exploration of Log-Mel Spectrogram and MFCC Features for Alzheimer's Dementia Recognition from Spontaneous Speech. , 2021, , .		45
3	Cardiorespiratory and Endocrine Mechanisms Behind the Effectiveness of Pranayama. Advances in Medical Diagnosis, Treatment, and Care, 2021, , 49-60.	0.1	0
4	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
5	Decoding Covert Speech From EEG-A Comprehensive Review. Frontiers in Neuroscience, 2021, 15, 642251.	1.4	50
6	CTC-Based End-To-End ASR for the Low Resource Sanskrit Language with Spectrogram Augmentation. , 2021, , .		2
7	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
8	Investigation of Different G2P Schemes for Speech Recognition in Sanskrit. Lecture Notes in Computer Science, 2021, , 536-547.	1.0	2
9	KannadaPado: Mobile-based recognition and cross-lingual transcription of camera captured text in Kannada. , 2021, , .		2
10	Efficient Human-Quality Kannada TTS using Transfer Learning on NVIDIA's Tacotron2. , 2021, , .		2
11	Common Spatial Pattern Based Data Augmentation Technique for Decoding Imagined Speech. , 2021, , .		1
12	Factors behind higher COVID-19 recovery and lower fatality rates in India - need for a focused study. , 2021, , .		0
13	An Elegant Experimental Setup for Accurate Presentation of Dichoptic Stimuli. , 2021, , .		0
14	Can we identify the category of imagined phoneme from EEG?. , 2021, 2021, 459-462.		7
15	Classification of Phonological Categories in Imagined Speech using Phase Synchronization Measure. , 2021, 2021, 2226-2229.		7
16	Midline EEG Functional Connectivity As Biomarker for Conscious States in Sleep and Wakefulness. , 2021, 2021, 1924-1927.		0
17	An Efficient Sleep Scoring Method using Visibility Graph and Temporal Features of Single-Channel EEG. , 2021, 2021, 6306-6309.		6
18	Brain Functional Connectivity as Biomarker for Propofol-Induced Alterations of Consciousness. , 2021, 2021, 1928-1931.		1

#	ARTICLE	IF	CITATIONS
19	Increased Entropy of Gamma Oscillations in the Frontal Region during Meditation. , 2021, 2021, 787-790.		2
20	Automated classification of EEG into meditation and non-meditation epochs using common spatial pattern, linear discriminant analysis, and LSTM. , 2021, , .		4
21	Binary classification of meditative state from the resting state using EEG. , 2021, , .		4
22	Unsupervised Domain Adaptation Schemes for Building ASR in Low-Resource Languages. , 2021, , .		1
23	Anomaly in respiratory sinus arrhythmia â€“ multiple heart rate variability cycles within each breathing cycle at low breath rates with breath holds. , 2020, , .		2
24	VR Glasses based Measurement of Responses to Dichoptic Stimuli: A Potential Tool for Quantifying Amblyopia?. , 2020, 2020, 5106-5110.		7
25	R-wave Amplitude Changes and Atypical Heart Rate Changes Accompanying Breath Hold During Low Breathing Rates. , 2020, 2020, 2667-2670.		3
26	Electrophysiological and Neuroimaging Studies â€“ During Resting State and Sensory Stimulation in Disorders of Consciousness: A Review. Frontiers in Neuroscience, 2020, 14, 555093.	1.4	29
27	A Pilot Study on Amblyopic Children for Possible Quantification of the Left/Right Mismatch. , 2020, , .		2
28	Lipi Gnani. ACM Transactions on Asian and Low-Resource Language Information Processing, 2020, 19, 1-23.	1.3	15
29	An Improved EEG Acquisition Protocol Facilitates Localized Neural Activation. Lecture Notes in Electrical Engineering, 2020, , 267-281.	0.3	5
30	Characterization of Meditation EEG based on Consistency of Covariance Matrices over Time. , 2020, , .		3
31	Binary State Prediction of Sleep or Wakefulness Using EEG and EOG Features. , 2020, , .		7
32	Fuzzy entropy as a measure of EEG complexity during Rajayoga practice in long-term meditators. , 2020, , .		1
33	Sleep-awake Classification using EEG Band-power-ratios and Complexity Measures. , 2020, , .		4
34	Low-Resource End-to-end Sanskrit TTS using Tacotron2, WaveGlow and Transfer Learning. , 2020, , .		7
35	DeepInterpolation: fusion of multiple interpolations and CNN to obtain superâ€“resolution. IET Image Processing, 2020, 14, 4000-4011.	1.4	5
36	Pitch-synchronous Discrete Cosine Transform Features for Speaker Identification and Verification. , 2020, , .		0

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37	Redesign of the COVID-19 ICUs to Save the Corona Warriors. , 2020, , .		1
38	Splitting Merged Characters of Kannada Benchmark Dataset using Simplified Paired-Valleys and L-Cut. , 2019, , .		2
39	Improving the Perceptual Quality of Document Images Using Deep Neural Network. Lecture Notes in Computer Science, 2019, , 448-459.	1.0	2
40	Gamma Enhanced Binarization - An Adaptive Nonlinear Enhancement of Degraded Word Images for Improved Recognition of Split Characters. , 2019, , .		2
41	Data-pooling and multi-task learning for enhanced performance of speech recognition systems in multiple low resourced languages. , 2019, , .		5
42	Effects of Modifying the Input Features and the Loss Function on Improving Emotion Classification. , 2019, , .		5
43	Calibration-free SSVEP-based BCI Switch. , 2019, , .		3
44	Scattering transform inspired filterbank learning from raw speech for better acoustic modeling. , 2019, , .		2
45	Improving generalization of Monte Carlo dropout based DNN ensemble model for speech enhancement and results on real world, traffic noise. , 2019, , .		0
46	Automatic Speech Recognition for Sanskrit. , 2019, , .		12
47	Decoding Imagined Speech using Wavelet Features and Deep Neural Networks. , 2019, , .		21
48	Improving Facial Emotion Recognition Systems with Crucial Feature Extractors. Lecture Notes in Computer Science, 2019, , 268-279.	1.0	10
49	Improvement of Image Denoising Algorithms by Preserving the Edges. Lecture Notes in Computer Science, 2019, , 496-506.	1.0	2
50	Efficient document-image super-resolution using convolutional neural network. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	0.8	5
51	DNN Based Speech Enhancement for Unseen Noises Using Monte Carlo Dropout. , 2018, , .		5
52	Discrimination of Sonorants from Fricatives Using a Scalar Feature Derived from Linear Prediction Coefficients. , 2018, , .		0
53	Computationally Efficient Approaches for Image Style Transfer. , 2018, , .		1
54	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

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55	Color Components Clustering and Power Law Transform for the Effective Implementation of Character Recognition in Color Images. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 131-139.	0.5	0
56	MSCE: An Edge-Preserving Robust Loss Function for Improving Super-Resolution Algorithms. <i>Lecture Notes in Computer Science</i> , 2018, , 566-575.	1.0	13
57	Voice activity detection from the breathing pattern of the speaker. , 2017, , .		2
58	A Joint Enhancement-Decoding Formulation for Noise Robust Phoneme Recognition. , 2017, , .		2
59	A new approach for upscaling document images for improving their quality. , 2017, , .		6
60	Design and development of a large vocabulary, continuous speech recognition system for Tamil. , 2017, , .		9
61	Cosine similarity based dictionary learning and source recovery for classification of diverse audio sources. , 2016, , .		1
62	Relationship between spoken Indian languages by clustering of long distance bigram features of speech. , 2016, , .		1
63	Automatic user customized brain switch. , 2016, , .		5
64	Classification of bacterial morphotypes from images of ZN-stained sputum-smears towards diagnosing drug-resistant TB. , 2016, , .		1
65	Binary classification posed as a quadratically constrained quadratic programming and solved using particle swarm optimization. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2016, 41, 289.	0.8	1
66	Reconstruction of EEG from limited channel acquisition using estimated signal correlation. <i>Biomedical Signal Processing and Control</i> , 2016, 27, 164-173.	3.5	16
67	Cumulative Impulse Strength for Epoch Extraction. <i>IEEE Signal Processing Letters</i> , 2016, 23, 424-428.	2.1	7
68	Intrinsic-cum-extrinsic normalization of formant data of vowels. <i>Journal of the Acoustical Society of America</i> , 2016, 140, EL446-EL451.	0.5	0
69	Voice source characterization using pitch synchronous discrete cosine transform for speaker identification. <i>Journal of the Acoustical Society of America</i> , 2015, 137, EL469-EL475.	0.5	21
70	Transliteration of Indic languages to Kannada with a user-friendly interface. , 2015, , .		4
71	Bigram Language Models and Reevaluation Strategy for Improved Recognition of Online Handwritten Tamil Words. <i>ACM Transactions on Asian and Low-Resource Language Information Processing</i> , 2015, 14, 1-28.	1.3	10
72	Detection of the closure-burst transitions of stops and affricates in continuous speech using the plosion index. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 460-471.	0.5	30

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73	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
74	A fast algorithm for speech polarity detection using long-term linear prediction. , 2014, , .		3
75	Improved recognition of aged Kannada documents by effective segmentation of merged characters. , 2014, , .		8
76	Reduction of the order of anti-aliasing filters in embedded avionics data acquisition. , 2014, , .		2
77	Recognition of open vocabulary, online handwritten pages in Tamil script. , 2014, , .		2
78	Performance enhancement of online handwritten Tamil symbol recognition with reevaluation techniques. Pattern Analysis and Applications, 2014, 17, 587-609.	3.1	6
79	Subband analysis of linear prediction residual for the estimation of glottal closure instants. , 2014, , .		6
80	Threshold-Independent QRS Detection Using the Dynamic Plosion Index. IEEE Signal Processing Letters, 2014, 21, 554-558.	2.1	45
81	Low order anti-aliasing filters for sparse signals in embedded applications. Sadhana - Academy Proceedings in Engineering Sciences, 2013, 38, 397-405.	0.8	2
82	NESP: Nonlinear enhancement and selection of plane for optimal segmentation and recognition of scene word images. Proceedings of SPIE, 2013, , .	0.8	14
83	Evaluation of document binarization using eigen value decomposition. , 2013, , .		2
84	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
85	Global and local features for recognition of online handwritten numerals and Tamil characters. , 2013, , .		14
86	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
87	Recognition of Kannada characters extracted from scene images. , 2012, , .		5
88	Multi-script and Multi-oriented Text Localization from Scene Images. Lecture Notes in Computer Science, 2012, , 1-14.	1.0	10
89	Language models for online handwritten Tamil word recognition. , 2012, , .		8
90	Compressed acquisition of correlated signals. , 2012, , .		1

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91	Sub-band envelope approach to obtain instants of significant excitation in speech. , 2012, , .		2
92	Power-law transformation for enhanced recognition of born-digital word images. , 2012, , .		23
93	OTCYMIST: Otsu-Canny Minimal Spanning Tree for Born-Digital Images. , 2012, , .		18
94	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
95	Multiplexed Compressed Sensing for general frequency sparse signals. , 2011, , .		2
96	Detection and classification of diabetic retinopathy using retinal images. , 2011, , .		71
97	Panmozhi Vaayil - A Multilingual Indic Keyboard Interface for Business and Personal Use. Communications in Computer and Information Science, 2011, , 278-283.	0.4	1
98	Online Handwriting Recognition of Tamil Script Using Fractal Geometry. , 2011, , .		10
99	Frequency detection from multiplexed compressed sensing of noisy signals. , 2011, , .		1
100	MAST. , 2011, , .		9
101	Quality Assessment in Magnetic Resonance Images. Critical Reviews in Biomedical Engineering, 2010, 38, 127-141.	0.5	19
102	Improved k�t BLAST for fast fMR imaging. Journal of Magnetic Resonance, 2010, 204, 273-280.	1.2	2
103	Composite MR image reconstruction and unaliasing for general trajectories using neural networks. Magnetic Resonance Imaging, 2010, 28, 1468-1484.	1.0	4
104	Continuity metric for unit selection based text-to-speech synthesis. , 2010, , .		8
105	Orthogonal LDA in PCA Transformed Subspace. , 2010, , .		3
106	Unrestricted Kannada online handwritten akshara recognition using SDTW. , 2010, , .		8
107	Comparison of HMM and SDTW for Tamil handwritten character recognition. , 2010, , .		14
108	MOSAICS: Multiplexed optimal signal acquisition involving compressed sensing. , 2010, , .		4

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109	Online Handwritten Kannada Word Recognizer with Unrestricted Vocabulary. , 2010, , .		8
110	Creation of a Huge Annotated Database for Tamil and Kannada OHR. , 2010, , .		11
111	An Improved Online Tamil Character Recognition Engine Using Post-Processing Methods. , 2009, , .		11
112	Divide and conquer technique in online handwritten Kannada character recognition. , 2009, , .		29
113	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
114	Resolving Ambiguities in Confused Online Tamil Characters with Post Processing Algorithms. Lecture Notes in Computer Science, 2009, , 406-413.	1.0	0
115	Spectral analysis of noise in the neonatal intensive care unit. Indian Journal of Pediatrics, 2008, 75, 217-22.	0.3	26
116	Word level multi-script identification. Pattern Recognition Letters, 2008, 29, 1218-1229.	2.6	106
117	A research bed for unit selection based text to speech synthesis. , 2008, , .		7
118	Perceptual-MVDR based analysis-synthesis of pitch synchronous frames for pitch modification. , 2008, , .		2
119	Online Character Recognition using Regression Techniques. , 2008, , .		1
120	CCD: Connected Component Descriptor for Robust Mosaicing of Camera-Captured Document Images. , 2008, , .		5
121	Automatic Seal Information Reader. , 2007, , .		3
122	Edge-based connected component approach for skew correction of complex document images. , 2007, , .		4
123	Bauer Method of MVDR Spectral Factorization for Pitch Modification in the Source Domain. , 2007, , .		3
124	A Novel Hierarchical Classification Scheme for Online Tamil Character Recognition. Proc Int Conf Doc Anal Recognit, 2007, , .	0.0	5
125	A Blind Indic Script Recognizer for Multi-script Documents. Proc Int Conf Doc Anal Recognit, 2007, , .	0.0	4
126	Comparative Study of Filter-Bank Mean-Energy Distance for Automated Segmentation of Speech Signals. , 2007, , .		0



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127	Block-based feature detection and matching for mosaicing of camera-captured document images. , 2007, , .		6
128	An Efficient Montgomery Multiplication Algorithm and RSA Cryptographic Processor. , 2007, , .		13
129	Honeypots: Deployment and Data Forensic Analysis. , 2007, , .		4
130	A Robust Two Level Classification Algorithm for Text Localization in Documents. , 2007, , 96-105.		11
131	Entropy Based Skew Correction of Document Images. , 2007, , 495-502.		9
132	Automatic text block separation in document images. , 2006, , .		6
133	Knuckle based hand correlation for user authentication. , 2006, , .		19
134	Polarization-rich continuous wave direct imaging: modeling and visualization. Applied Optics, 2006, 45, 4344.	2.1	0
135	Text Localization and Extraction from Complex Gray Images. Lecture Notes in Computer Science, 2006, , 776-785.	1.0	2
136	Document Page Layout Analysis Using Harris Corner Points. , 2006, , .		3
137	Can Biological Motion be a Biometric?. , 2006, , .		0
138	Language Independent Automated Segmentation of Speech using Bach scale filter-banks. , 2006, , .		2
139	Binarization and Localization of Text Images Captured on a Mobile Phone Camera. , 2006, , .		1
140	WAVELET-BASED ESTIMATION OF HEMODYNAMIC RESPONSE FUNCTION FROM fMRI DATA. International Journal of Neural Systems, 2006, 16, 125-138.	3.2	6
141	HVS Inspired System for Script Identification in Indian Multi-script Documents. Lecture Notes in Computer Science, 2006, , 380-389.	1.0	16
142	OCR in Indian Scripts: A Survey. IETE Technical Review (Institution of Electronics and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (Tele 2.1 21		
143	Pseudo Complex Cepstrum Using Discrete Cosine Transform. International Journal of Speech Technology, 2005, 8, 181-191.	1.4	4
144	Prototype learning methods for online handwriting recognition. , 2005, , .		8

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145	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
146	Machine recognition of online handwritten Devanagari characters. , 2005, , .		48
147	Text Localization and Extraction from Complex Color Images. Lecture Notes in Computer Science, 2005, , 486-493.	1.0	10
148	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
149	Modification of pitch using DCT in the source domain. Speech Communication, 2004, 42, 143-154.	1.6	39
150	Principal component analysis for online handwritten character recognition. , 2004, , .		45
151	Wavelet-Based Estimation of Hemodynamic Response Function. Lecture Notes in Computer Science, 2004, , 1285-1291.	1.0	0
152	Optimal Feature Extraction for Bilingual OCR. Lecture Notes in Computer Science, 2002, , 25-36.	1.0	10
153	Machine Recognition of Printed Kannada Text. Lecture Notes in Computer Science, 2002, , 37-48.	1.0	21
154	A Complete Tamil Optical Character Recognition System. Lecture Notes in Computer Science, 2002, , 53-57.	1.0	32
155	Script Identification in Printed Bilingual Documents. Lecture Notes in Computer Science, 2002, , 13-24.	1.0	15
156	DCT based pseudo complex cepstrum. , 2002, , .		2
157	Fetal lung maturity analysis using ultrasound image features. IEEE Transactions on Information Technology in Biomedicine, 2002, 6, 38-45.	3.6	47
158	Script identification in printed bilingual documents. Sadhana - Academy Proceedings in Engineering Sciences, 2002, 27, 73-82.	0.8	73
159	An Investigation into the Feasibility of Fetal Lung Maturity Prediction Using Statistical Textural Features. Ultrasonic Imaging, 2001, 23, 39-54.	1.4	11
160	Evoked Potential Signal Estimation Using Gaussian Radial Basis Function Network. Lecture Notes in Computer Science, 2001, , 630-635.	1.0	0
161	Wavelet Domain Nonlinear Filtering for Evoked Potential Signal Enhancement. Journal of Biomedical Informatics, 2000, 33, 431-446.	0.7	16
162	Heart rate variability as an index of cue reactivity in alcoholics. Biological Psychiatry, 1998, 43, 544-546.	0.7	37

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163	Effect of two selected yogic breathing techniques of heart rate variability. Indian Journal of Physiology and Pharmacology, 1998, 42, 467-72.	0.4	78
164	ECG coding by wavelet-based linear prediction. IEEE Transactions on Biomedical Engineering, 1997, 44, 1253-1261.	2.5	110
165	Pseudo Complex Cepstrum Using Discrete Cosine Transform. Journal of Sol-Gel Science and Technology, 1997, 8, 181-191.	1.1	1
166	ECG Compression by Multirate Processing of Beats. Journal of Biomedical Informatics, 1996, 29, 407-417.	0.7	11
167	Electrophysiological correlates of hanseniasis. International Journal of Leprosy and Other Mycobacterial Diseases, 1995, 63, 395-408.	0.3	3
168	Modelling of compound nerve action potentials health and disease. , 1992, , .		0
169	Extraction of significant nerve conduction predictors in early diagnosis of leprosy. , 1992, , .		0
170	Central conduction in leprosy &#x2014; A multidomain study. , 1992, , .		1
171	Comparison of Elastic Matching Algorithms for Online Tamil Handwritten Character Recognition. , 0, , .		50
172	Inversion detection in text document images. , 0, , .		1
173	An error correction scheme for GCI detection algorithms using pitch smoothness criterion. , 0, , .		0
174	Classification of place-of-articulation of stop consonants using temporal analysis. , 0, , .		1
175	A Class-Specific Speech Enhancement for Phoneme Recognition: A Dictionary Learning Approach. , 0, , .		2
176	Hierarchical Classification of Speaker and Background Noise and Estimation of SNR Using Sparse Representation. , 0, , .		6
177	An Objective Critical Distance Measure Based on the Relative Level of Spectral Valley. , 0, , .		0
178	Estimation of the Vocal Tract Length of Vowel Sounds Based on the Frequency of the Significant Spectral Valley. , 0, , .		1