

Yegnanarayana Bayya

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

162
papers

4,510
citations

40
h-index

63
g-index

185
ext. papers

5,629
ext. citations

2.9
avg, IF

5.77
L-index

#	Paper	IF	Citations
162	Group delay spectrogram of speech signals without phase wrapping.. <i>Journal of the Acoustical Society of America</i> , 2022 , 151, 2181	2.2	1
161	Extraction and Utilization of Excitation Information of Speech: A Review. <i>Proceedings of the IEEE</i> , 2021 , 1-22	14.3	1
160	A neural network approach for speech activity detection for Apollo corpus. <i>Computer Speech and Language</i> , 2021 , 65, 101137	2.8	1
159	Analysis and classification of phonation types in speech and singing voice. <i>Speech Communication</i> , 2020 , 118, 33-47	2.8	5
158	Excitation Features of Speech for Emotion Recognition Using Neutral Speech as Reference. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 4459-4481	2.2	3
157	Determination of glottal closure instants from clean and telephone quality speech signals using single frequency filtering. <i>Computer Speech and Language</i> , 2020 , 64, 101097	2.8	3
156	Detection of glottal closure instant and glottal open region from speech signals using spectral flatness measure. <i>Speech Communication</i> , 2020 , 116, 30-43	2.8	6
155	Time Delay Estimation from Mixed Multispeaker Speech Signals Using Single Frequency Filtering. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 1988-2005	2.2	5
154	Comparison of Glottal Closure Instants Detection Algorithms for Emotional Speech 2020 ,		3
153	Subsegmental level analysis of high arousal speech using the zero-time windowing method. <i>Journal of the Acoustical Society of America</i> , 2019 , 145, 551	2.2	
152	Analysis of aperiodicity in artistic Noh singing voice using an impulse sequence representation of excitation source. <i>Journal of the Acoustical Society of America</i> , 2019 , 146, 4446	2.2	6
151	Spectral and temporal manipulations of SFF envelopes for enhancement of speech intelligibility in noise. <i>Computer Speech and Language</i> , 2019 , 54, 86-105	2.8	4
150	Significance of phase in single frequency filtering outputs of speech signals. <i>Speech Communication</i> , 2018 , 97, 66-72	2.8	7
149	Extraction of Fundamental Frequency From Degraded Speech Using Temporal Envelopes at High SNR Frequencies. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2017 , 25, 829-838	3.6	9
148	Epoch extraction from emotional speech using single frequency filtering approach. <i>Speech Communication</i> , 2017 , 86, 52-63	2.8	36
147	Determination of glottal open regions by exploiting changes in the vocal tract system characteristics. <i>Journal of the Acoustical Society of America</i> , 2016 , 140, 666	2.2	8
146	Single Frequency Filtering Approach for Discriminating Speech and Nonspeech. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2015 , 23, 705-717	3.6	49

145	Analysis of singing voice for epoch extraction using Zero Frequency Filtering method 2015 ,		13
144	Study of characteristics of aperiodicity in Noh voices. <i>Journal of the Acoustical Society of America</i> , 2015 , 137, 3411-21	2.2	19
143	Extraction of formant bandwidths using properties of group delay functions. <i>Speech Communication</i> , 2014 , 63-64, 70-83	2.8	2
142	Study of the effects of vocal tract constriction on glottal vibration. <i>Journal of the Acoustical Society of America</i> , 2014 , 136, 1932-41	2.2	24
141	Spectro-temporal analysis of speech signals using zero-time windowing and group delay function. <i>Speech Communication</i> , 2013 , 55, 782-795	2.8	30
140	Synthesis of laughter by modifying excitation characteristics. <i>Journal of the Acoustical Society of America</i> , 2013 , 133, 3072-82	2.2	11
139	Effect of glottal dynamics in the production of shouted speech. <i>Journal of the Acoustical Society of America</i> , 2013 , 133, 3050-61	2.2	41
138	Spotting glottal stop in Amharic in continuous speech. <i>Computer Speech and Language</i> , 2012 , 26, 293-305.8		0
137	Edge extraction using zero-frequency resonator. <i>Signal, Image and Video Processing</i> , 2012 , 6, 287-300	1.6	3
136	Acoustic analysis of trill sounds. <i>Journal of the Acoustical Society of America</i> , 2012 , 131, 3141-52	2.2	15
135	Performance of an Event-Based Instantaneous Fundamental Frequency Estimator for Distant Speech Signals. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2011 , 19, 1853-1864		18
134	Speech Communication and Signal Processing. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2011 , 36, 551-553	1	
133	Group delay functions and its applications in speech technology. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2011 , 36, 745-782	1	47
132	Epoch-based analysis of speech signals. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2011 , 36, 651-697	1	31
131	Laplacian of smoothed image as representation for face recognition 2011 ,		1
130	Study of robustness of zero frequency resonator method for extraction of fundamental frequency 2011 ,		9
129	Voiced/Nonvoiced Detection Based on Robustness of Voiced Epochs. <i>IEEE Signal Processing Letters</i> , 2010 , 17, 273-276	3.2	58
128	Classification of sport videos using edge-based features and autoassociative neural network models. <i>Signal, Image and Video Processing</i> , 2010 , 4, 61-73	1.6	17

127	On the use of phase of the Fourier transform for face recognition under variations in illumination. <i>Signal, Image and Video Processing</i> , 2010 , 4, 353-358	1.6	21
126	Spectral Mapping Using Artificial Neural Networks for Voice Conversion. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2010 , 18, 954-964		118
125	Perceived loudness of speech based on the characteristics of glottal excitation source. <i>Journal of the Acoustical Society of America</i> , 2009 , 126, 2061-71	2.2	42
124	Event-Based Instantaneous Fundamental Frequency Estimation From Speech Signals. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2009 , 17, 614-624		120
123	Determining Mixing Parameters From Multispeaker Data Using Speech-Specific Information. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2009 , 17, 1196-1207		23
122	Duration modification using glottal closure instants and vowel onset points. <i>Speech Communication</i> , 2009 , 51, 1263-1269	2.8	59
121	Intonation modeling for Indian languages. <i>Computer Speech and Language</i> , 2009 , 23, 240-256	2.8	47
120	Characterization of Glottal Activity From Speech Signals. <i>IEEE Signal Processing Letters</i> , 2009 , 16, 469-473	2	81
119	Epoch Extraction From Speech Signals. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2008 , 16, 1602-1613		346
118	Activity modeling using event probability sequences. <i>IEEE Transactions on Image Processing</i> , 2008 , 17, 594-607	8.7	35
117	Speaker change detection in casual conversations using excitation source features. <i>Speech Communication</i> , 2008 , 50, 153-161	2.8	7
116	Multimodal person authentication using speech, face and visual speech. <i>Computer Vision and Image Understanding</i> , 2008 , 109, 44-55	4.3	20
115	Extraction and representation of prosodic features for language and speaker recognition. <i>Speech Communication</i> , 2008 , 50, 782-796	2.8	111
114	Determining Number of Speakers From Multispeaker Speech Signals Using Excitation Source Information. <i>IEEE Signal Processing Letters</i> , 2007 , 14, 481-484	3.2	28
113	Face Verification Using Template Matching. <i>IEEE Transactions on Information Forensics and Security</i> , 2007 , 2, 636-641	8	17
112	Modeling durations of syllables using neural networks. <i>Computer Speech and Language</i> , 2007 , 21, 282-295	8	58
111	Significance of image representation for face verification. <i>Signal, Image and Video Processing</i> , 2007 , 1, 225-237	1.6	18
110	Determination of Instants of Significant Excitation in Speech Using Hilbert Envelope and Group Delay Function. <i>IEEE Signal Processing Letters</i> , 2007 , 14, 762-765	3.2	82

109	Prosody modification using instants of significant excitation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2006 , 14, 972-980		115
108	Combining evidence from residual phase and MFCC features for speaker recognition. <i>IEEE Signal Processing Letters</i> , 2006 , 13, 52-55	3.2	216
107	Extraction of speaker-specific excitation information from linear prediction residual of speech. <i>Speech Communication</i> , 2006 , 48, 1243-1261	2.8	97
106	Combining evidence from source, suprasegmental and spectral features for a fixed-text speaker verification system. <i>IEEE Transactions on Speech and Audio Processing</i> , 2005 , 13, 575-582		74
105	Processing of reverberant speech for time-delay estimation. <i>IEEE Transactions on Speech and Audio Processing</i> , 2005 , 13, 1110-1118		43
104	Extracting the frequencies of the pinna spectral notches in measured head related impulse responses. <i>Journal of the Acoustical Society of America</i> , 2005 , 118, 364-74	2.2	56
103	Speaker localization using excitation source information in speech. <i>IEEE Transactions on Speech and Audio Processing</i> , 2005 , 13, 751-761		32
102	Finding axes of symmetry from potential fields. <i>IEEE Transactions on Image Processing</i> , 2004 , 13, 1559-668.7		37
101	Real time face authentication system using autoassociative neural network models 2003 ,		4
100	Prosodic manipulation using instants of significant excitation 2003 ,		11
99	Speaker-specific mapping for text-independent speaker recognition. <i>Speech Communication</i> , 2003 , 39, 301-310	2.8	11
98	AANN: an alternative to GMM for pattern recognition. <i>Neural Networks</i> , 2002 , 15, 459-69	9.1	101
97	Radial basis function networks for fast contingency ranking. <i>International Journal of Electrical Power and Energy Systems</i> , 2002 , 24, 387-393	5.1	47
96	Speech enhancement using excitation source information 2002 ,		14
95	Autoassociative Neural Network Models for Pattern Recognition Tasks in Speech and Image. <i>Series in Machine Perception and Artificial Intelligence</i> , 2002 , 283-305	0.3	5
94	A constraint satisfaction model for recognition of stop consonant-vowel (SCV) utterances. <i>IEEE Transactions on Speech and Audio Processing</i> , 2002 , 10, 472-480		12
93	PATTERN RECOGNITION ISSUES IN SPEECH PROCESSING 2001 , 531-558		
92	Enhancement of reverberant speech using LP residual signal. <i>IEEE Transactions on Speech and Audio Processing</i> , 2000 , 8, 267-281		111

91	Robustness of group-delay-based method for extraction of significant instants of excitation from speech signals. <i>IEEE Transactions on Speech and Audio Processing</i> , 1999 , 7, 609-619		49
90	Speech enhancement using linear prediction residual. <i>Speech Communication</i> , 1999 , 28, 25-42	2.8	83
89	Backpropagation learning algorithms for classification with fuzzy mean square error. <i>Pattern Recognition Letters</i> , 1998 , 19, 43-51	4.7	9
88	Supervised texture classification using a probabilistic neural network and constraint satisfaction model. <i>IEEE Transactions on Neural Networks</i> , 1998 , 9, 516-22		42
87	Extraction of vocal-tract system characteristics from speech signals. <i>IEEE Transactions on Speech and Audio Processing</i> , 1998 , 6, 313-327		77
86	Effectiveness of a periodic and aperiodic decomposition method for analysis of voice sources. <i>IEEE Transactions on Speech and Audio Processing</i> , 1998 , 6, 12-23		14
85	An iterative algorithm for decomposition of speech signals into periodic and aperiodic components. <i>IEEE Transactions on Speech and Audio Processing</i> , 1998 , 6, 1-11		45
84	Unsupervised texture classification using vector quantization and deterministic relaxation neural network. <i>IEEE Transactions on Image Processing</i> , 1997 , 6, 1376-87	8.7	14
83	A clustering algorithm using an evolutionary programming-based approach. <i>Pattern Recognition Letters</i> , 1997 , 18, 975-986	4.7	89
82	Segmentation of Gabor-filtered textures using deterministic relaxation. <i>IEEE Transactions on Image Processing</i> , 1996 , 5, 1625-36	8.7	57
81	Recognition of Stop-Consonant-Vowel (SCV) Segments in Continuous Speech using Neural Network Models. <i>IETE Journal of Research</i> , 1996 , 42, 269-280	0.9	18
80	Neural networks for contract bridge bidding. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 1996 , 21, 395-413	1	9
79	On timing in time-frequency analysis of speech signals. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 1996 , 21, 5-20	1	1
78	Word boundary hypothesization for continuous speech in Hindi based on F0 patterns. <i>Speech Communication</i> , 1996 , 18, 21-46	2.8	8
77	Source-system windowing for speech analysis and synthesis. <i>IEEE Transactions on Speech and Audio Processing</i> , 1996 , 4, 133-137		2
76	Transformation of formants for voice conversion using artificial neural networks. <i>Speech Communication</i> , 1995 , 16, 207-216	2.8	109
75	. <i>IEEE Transactions on Speech and Audio Processing</i> , 1995 , 3, 325-333		120
74	Significance of knowledge sources for a text-to-speech system for Indian languages. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 1994 , 19, 147-169	1	8

73	Artificial neural networks for pattern recognition. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 1994 , 19, 189-238	1	38
72	Intonation component of a text-to-speech system for Hindi. <i>Computer Speech and Language</i> , 1993 , 7, 283-301	2.8	18
71	Image reconstruction from multiple frames of sparse data. <i>Multidimensional Systems and Signal Processing</i> , 1993 , 4, 167-179	1.8	1
70	. <i>IEEE Transactions on Signal Processing</i> , 1992 , 40, 2281-2289	4.8	75
69	Use of fuzzy mathematical concepts in character spotting for automatic recognition of continuous speech in Hindi. <i>Fuzzy Sets and Systems</i> , 1992 , 46, 1-9	3.7	6
68	Speech processing using group delay functions. <i>Signal Processing</i> , 1991 , 22, 259-267	4.4	56
67	Word boundary hypothesization in Hindi speech. <i>Computer Speech and Language</i> , 1991 , 5, 379-392	2.8	4
66	Formant extraction from group delay function. <i>Speech Communication</i> , 1991 , 10, 209-221	2.8	56
65	A maximum entropy approach to interpolation. <i>Signal Processing</i> , 1990 , 21, 17-24	4.4	4
64	Signal reconstruction from partial data for sensor array imaging applications. <i>Signal Processing</i> , 1990 , 19, 139-149	4.4	8
63	Voice conversion. <i>Speech Communication</i> , 1989 , 8, 147-158	2.8	49
62	Effectiveness of representation of signals through group delay functions. <i>Signal Processing</i> , 1989 , 17, 141-150	4.4	8
61	. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1989 , 37, 151-152		
60	Applications of Group Delay Functions in Speech Processing. <i>IETE Journal of Research</i> , 1988 , 34, 20-29	0.9	
59	Representation of images through group-delay functions. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1987 , 35, 237-240		4
58	Waveform estimation using group delay processing. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1985 , 33, 832-836		13
57	Signal-dependent matching for isolated word speech recognition systems. <i>Signal Processing</i> , 1984 , 7, 161-173	4.4	7
56	On improvement of performance of isolated word recognition for degraded speech. <i>Signal Processing</i> , 1984 , 7, 175-183	4.4	7

55	Significance of group delay functions in signal reconstruction from spectral magnitude or phase. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1984 , 32, 610-623		96
54	Comparative study of nonlinear time warping techniques in isolated word speech recognition systems. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1983 , 31, 1582-1586		3
53	Design of recursive group-delay filters by autoregressive modeling. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1982 , 30, 632-637		20
52	Design of ARMA digital filters by pole-zero decomposition. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1981 , 29, 433-439		17
51	Speech analysis by pole-zero decomposition of short-time spectra. <i>Signal Processing</i> , 1981 , 3, 5-17	4.4	15
50	Epoch extraction from linear prediction residual for identification of closed glottis interval. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1979 , 27, 309-319		162
49	Formant extraction from linear-prediction phase spectra. <i>Journal of the Acoustical Society of America</i> , 1978 , 63, 1638-1640	2.2	96
48	Epoch Extraction of Composite Signals. <i>IETE Journal of Research</i> , 1976 , 22, 712-716	0.9	
47	Intelligibility of speech under nonexponential decay conditions. <i>Journal of the Acoustical Society of America</i> , 1975 , 58, 853-7	2.2	14
46	Epoch extraction of voiced speech. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1975 , 23, 562-570		46
45	Diffusion of decaying sound field in a reverberation room with a highly absorbing sample. <i>Journal of the Acoustical Society of America</i> , 1974 , 56, 706-708	2.2	1
44	Wave analysis of sound decay in rectangular rooms. <i>Journal of the Acoustical Society of America</i> , 1974 , 56, 534-541	2.2	5
43	Diffusion of Decaying Sound Field in a Reverberation Room with a Highly Absorbing Sample. <i>Journal of the Acoustical Society of America</i> , 1974 , 55, 420-420	2.2	
42	Computation of the Capacity of a Burst Noise Binary Symmetric Channel. <i>IETE Journal of Research</i> , 1973 , 19, 320-322	0.9	
41	Studies in a Reverberation Room with a Highly Absorbing Sample. <i>Journal of the Acoustical Society of America</i> , 1972 , 52, 465-470	2.2	6
40	Feedforward neural networks configuration using evolutionary programming		7
39	Rough-fuzzy set theoretic approach to evaluate the importance of input features in classification		5
38	Incorporation of fuzzy classification properties into backpropagation learning algorithm		2

37	Interpretation of state sequences in HMM for activity representation	5
36	Language identification in noisy environments using throat microphone signals	9
35	Modeling syllable duration in Indian languages using support vector machines	3
34	Neural network classifiers for language identification using phonotactic and prosodic features	7
33	Real time face recognition system using autoassociative neural network models	1
32	Combining evidence from multiple modular networks for recognition of consonant-vowel units of speech	1
31	Face verification using correlation filters and autoassociative neural networks	3
30	Speaker-specific information from residual phase	2
29	Acoustic model combination for recognition of speech in multiple languages using support vector machines	2
28	Extraction of pitch in adverse conditions	17
27	Extraction of fixed dimension patterns from varying duration segments of consonant-vowel utterances	8
26	Exploring features for audio clip classification using LP residual and AANN models	7
25	Spotting consonant-vowel units in continuous speech using autoassociative neural networks and support vector machines	3
24	Neural network models for combining evidence from spectral and suprasegmental features for text-dependent speaker verification	3
23	Modeling syllable duration in Indian languages using neural networks	3
22	Autoassociative neural network models for language identification	20
21	Online text-independent speaker verification system using autoassociative neural network models	4
20	Source and system features for speaker recognition using AANN models	18

19	Autoassociative neural network models for online speaker verification using source features from vowels	5
18	Speaker verification: minimizing the channel effects using autoassociative neural network models	4
17	Rough-fuzzy membership functions	5
16	Fuzzy-rough neural networks for vowel classification	7
15	Application of fuzzy-rough sets in modular neural networks	5
14	Analysis of autoassociative mapping neural networks	8
13	Neural network models for spotting stop consonant-vowel (SCV) segments in continuous speech	3
12	Texture classification using a two-stage neural network approach	2
11	Reconstruction from Fourier transform phase with applications to speech analysis	2
10	Performance of isolated word recognition system for confusable vocabulary	1
9	Measuring source-tract interaction from speech	4
8	Voice conversion: Factors responsible for quality	24
7	Processing of noisy speech using group delay functions	1
6	Effect of noise and distortion in speech on parametric extraction	1
5	Cascade realization of digital inverse filter for extracting speaker dependent features	1
4	Performance of linear prediction analysis on speech with additive noise	1
3	Epoch extraction from linear prediction residual	2
2	A distance measure based on the derivative of linear prediction phase spectrum	6

- 1 On Improving the Accuracy and Robustness of Time Delay Estimation of Broadband Signals. *Circuits, Systems, and Signal Processing*,1 2.2