

# Shrikanth Narayanan

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

5,366  
citations

159358

30  
h-index

118652

62  
g-index

81  
all docs

81  
docs citations

81  
times ranked

3247  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustics of children's speech: Developmental changes of temporal and spectral parameters. Journal of the Acoustical Society of America, 1999, 105, 1455-1468.	0.5	609
2	Environmental Sound Recognition With Time-Frequency Audio Features. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 1142-1158.	3.8	475
3	Primitives-based evaluation and estimation of emotions in speech. Speech Communication, 2007, 49, 787-800.	1.6	308
4	Emotion recognition using a hierarchical binary decision tree approach. Speech Communication, 2011, 53, 1162-1171.	1.6	274
5	An approach to real-time magnetic resonance imaging for speech production. Journal of the Acoustical Society of America, 2004, 115, 1771-1776.	0.5	256
6	The Vera am Mittag German audio-visual emotional speech database. , 2008, , .		246
7	Behavioral Signal Processing: Deriving Human Behavioral Informatics From Speech and Language. Proceedings of the IEEE, 2013, 101, 1203-1233.	16.4	225
8	Analysis of Emotionally Salient Aspects of Fundamental Frequency for Emotion Detection. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 582-596.	3.8	211
9	Paralinguistics in speech and language—State-of-the-art and the challenge. Computer Speech and Language, 2013, 27, 4-39.	2.9	207
10	A Framework for Automatic Human Emotion Classification Using Emotion Profiles. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1057-1070.	3.8	171
11	Real-time magnetic resonance imaging and electromagnetic articulography database for speech production research (TC). Journal of the Acoustical Society of America, 2014, 136, 1307-1311.	0.5	120
12	Acoustic modeling of American English /r/. Journal of the Acoustical Society of America, 2000, 108, 343-356.	0.5	108
13	Synchronized and noise-robust audio recordings during realtime magnetic resonance imaging scans. Journal of the Acoustical Society of America, 2006, 120, 1791-1794.	0.5	104
14	Where am I? Scene Recognition for Mobile Robots using Audio Features. , 2006, , .		103
15	Toward articulatory-acoustic models for liquid approximants based on MRI and EPG data. Part II. The rhotics. Journal of the Acoustical Society of America, 1997, 101, 1078-1089.	0.5	100
16	Annotation and processing of continuous emotional attributes: Challenges and opportunities. , 2013, , .		99
17	The Psychologist as an Interlocutor in Autism Spectrum Disorder Assessment: Insights From a Study of Spontaneous Prosody. Journal of Speech, Language, and Hearing Research, 2014, 57, 1162-1177.	0.7	91
18	Interpreting ambiguous emotional expressions. , 2009, , .		89

#	ARTICLE	IF	CITATIONS
19	Region Segmentation in the Frequency Domain Applied to Upper Airway Real-Time Magnetic Resonance Images. IEEE Transactions on Medical Imaging, 2009, 28, 323-338.	5.4	87
20	Tracking continuous emotional trends of participants during affective dyadic interactions using body language and speech information. Image and Vision Computing, 2013, 31, 137-152.	2.7	87
21	Seeing speech: Capturing vocal tract shaping using real-time magnetic resonance imaging [Exploratory DSP]. IEEE Signal Processing Magazine, 2008, 25, 123-132.	4.6	82
22	Detecting emotional state of a child in a conversational computer game. Computer Speech and Language, 2011, 25, 29-44.	2.9	72
23	Timing effects of syllable structure and stress on nasals: A real-time MRI examination. Journal of Phonetics, 2009, 37, 97-110.	0.6	64
24	Decision level combination of multiple modalities for recognition and analysis of emotional expression. , 2010, , .		64
25	Geometry, kinematics, and acoustics of Tamil liquid consonants. Journal of the Acoustical Society of America, 1999, 106, 1993-2007.	0.5	54
26	Speech emotion estimation in 3D space. , 2010, , .		53
27	A fast and flexible MRI system for the study of dynamic vocal tract shaping. Magnetic Resonance in Medicine, 2017, 77, 112-125.	1.9	53
28	Robust Unsupervised Arousal Rating:A Rule-Based Framework with Knowledge-Inspired Vocal Features. IEEE Transactions on Affective Computing, 2014, 5, 201-213.	5.7	52
29	Iterative Feature Normalization Scheme for Automatic Emotion Detection from Speech. IEEE Transactions on Affective Computing, 2013, 4, 386-397.	5.7	46
30	Paralinguistic mechanisms of production in human "beatboxing". A real-time magnetic resonance imaging study. Journal of the Acoustical Society of America, 2013, 133, 1043-1054.	0.5	46
31	Environmental sound recognition using MP-based features. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	44
32	On the robustness of overall F0-only modifications to the perception of emotions in speech. Journal of the Acoustical Society of America, 2008, 123, 4547-4558.	0.5	43
33	Simplified supervised i-vector modeling with application to robust and efficient language identification and speaker verification. Computer Speech and Language, 2014, 28, 940-958.	2.9	41
34	Visual emotion recognition using compact facial representations and viseme information. , 2010, , .		40
35	Acoustic topic model for audio information retrieval. , 2009, , .		39
36	An Overview on Perceptually Motivated Audio Indexing and Classification. Proceedings of the IEEE, 2013, 101, 1939-1954.	16.4	36

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37	Analysis of speech production real-time MRI. <i>Computer Speech and Language</i> , 2018, 52, 1-22.	2.9	36
38	Interspeaker Variability in Hard Palate Morphology and Vowel Production. <i>Journal of Speech, Language, and Hearing Research</i> , 2013, 56, 1924-1933.	0.7	35
39	Morphological Variation in the Adult Hard Palate and Posterior Pharyngeal Wall. <i>Journal of Speech, Language, and Hearing Research</i> , 2013, 56, 521-530.	0.7	34
40	Automatic recognition of emotion evoked by general sound events. , 2012, , .		27
41	Tracking changes in continuous emotion states using body language and prosodic cues. , 2011, , .		26
42	3D dynamic MRI of the vocal tract during natural speech. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1511-1520.	1.9	26
43	Deblurring for spiral real-time MRI using convolutional neural networks. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 3438-3452.	1.9	24
44	Real-time magnetic resonance imaging investigation of resonance tuning in soprano singing. <i>Journal of the Acoustical Society of America</i> , 2010, 128, EL335-EL341.	0.5	23
45	Statistical methods for estimation of direct and differential kinematics of the vocal tract. <i>Speech Communication</i> , 2013, 55, 147-161.	1.6	22
46	Speaker verification based on the fusion of speech acoustics and inverted articulatory signals. <i>Computer Speech and Language</i> , 2016, 36, 196-211.	2.9	22
47	Predicting couple therapy outcomes based on speech acoustic features. <i>PLoS ONE</i> , 2017, 12, e0185123.	1.1	22
48	Feasibility of through-time spiral generalized autocalibrating partial parallel acquisition for low latency accelerated real-time MRI of speech. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2275-2282.	1.9	17
49	Test-retest repeatability of human speech biomarkers from static and real-time dynamic magnetic resonance imaging. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 3323-3336.	0.5	16
50	Articulatory characterization of English liquid-final rimes. <i>Journal of Phonetics</i> , 2019, 77, 100921.	0.6	16
51	Analysis of engagement behavior in children during dyadic interactions using prosodic cues. <i>Computer Speech and Language</i> , 2016, 37, 47-66.	2.9	15
52	Explaining Coronal Reduction: Prosodic Structure and Articulatory Posture. <i>Phonetica</i> , 2018, 75, 151-181.	0.3	15
53	Automatic Detection of Disfluency Boundaries in Spontaneous Speech of Children Using Audio&#x2013;Visual Information. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2009, 17, 2-12.	3.8	14
54	Assessment of emerging reading skills in young native speakers and language learners. <i>Speech Communication</i> , 2009, 51, 968-984.	1.6	13

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55	Developmental acoustic study of American English diphthongs. Journal of the Acoustical Society of America, 2014, 136, 1880-1894.	0.5	13
56	Latent acoustic topic models for unstructured audio classification. APSIPA Transactions on Signal and Information Processing, 2012, 1, .	2.6	11
57	A modular architecture for articulatory synthesis from gestural specification. Journal of the Acoustical Society of America, 2019, 146, 4458-4471.	0.5	11
58	The language of interpersonal interaction: An interdisciplinary approach to assessing and processing vocal and speech data. European Journal of Counselling Psychology, 2018, 7, 69-85.	0.8	10
59	Detecting Politeness and frustration state of a child in a conversational computer game. , 0, , .		10
60	Are Articulatory Settings Mechanically Advantageous for Speech Motor Control?. PLoS ONE, 2014, 9, e104168.	1.1	9
61	Acoustic Denoising Using Dictionary Learning With Spectral and Temporal Regularization. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 967-980.	4.0	9
62	Intermittently tagged real-time MRI reveals internal tongue motion during speech production. Magnetic Resonance in Medicine, 2019, 82, 600-613.	1.9	9
63	Markov Chain Monte Carlo Inference of Parametric Dictionaries for Sparse Bayesian Approximations. IEEE Transactions on Signal Processing, 2016, 64, 3077-3092.	3.2	8
64	Estimation of vocal tract area function from volumetric Magnetic Resonance Imaging. , 2017, , .		8
65	Meta-Learning for Robust Child-Adult Classification from Speech. , 2020, , .		7
66	Leveraging Linguistic Context in Dyadic Interactions to Improve Automatic Speech Recognition for Children. Computer Speech and Language, 2020, 63, 101101.	2.9	7
67	End-to-end neural systems for automatic children speech recognition: An empirical study. Computer Speech and Language, 2022, 72, 101289.	2.9	7
68	Gestural Control in the English Past-Tense Suffix: An Articulatory Study Using Real-Time MRI. Phonetica, 2015, 71, 229-248.	0.3	6
69	Improving the Prediction of Therapist Behaviors in Addiction Counseling by Exploiting Class Confusions. , 2019, , .		6
70	Aliasing artifact reduction in spiral real-time MRI. Magnetic Resonance in Medicine, 2021, 86, 916-925.	1.9	6
71	Engineering Innovation in Speech Science: Data and Technologies. Perspectives of the ASHA Special Interest Groups, 2019, 4, 411-420.	0.4	6
72	The Promise and the Challenge of Technology-Facilitated Methods for Assessing Behavioral and Cognitive Markers of Risk for Suicide among U.S. Army National Guard Personnel. International Journal of Environmental Research and Public Health, 2017, 14, 361.	1.2	5

#	ARTICLE	IF	CITATIONS
73	Vocal Tract Articulatory Contour Detection in Real-Time Magnetic Resonance Images Using Spatio-Temporal Context. , 2020, , .		5
74	Variability in individual constriction contributions to third formant values in American English /É¹/. Journal of the Acoustical Society of America, 2020, 147, 3905-3916.	0.5	3
75	Selection of Emotionally Salient Audio-Visual Features for Modeling Human Evaluations of Synthetic Character Emotion Displays. , 2008, , .		2
76	Classification of emotional content of sighs in dyadic human interactions. , 2012, , .		2
77	Developmental aspects of American English diphthong trajectories in the formant space. Proceedings of Meetings on Acoustics, 2013, , .	0.3	2
78	On instantaneous vocal tract length estimation from formant frequencies. Proceedings of Meetings on Acoustics, 2013, , .	0.3	1
79	How an aglossic speaker produces an alveolar-like percept without a functional tongue tip. Journal of the Acoustical Society of America, 2020, 147, EL460-EL464.	0.5	1
80	Chapter 15 Behavioral signal processing and autism. , 2016, , 319-344.		0
81	Unstructured Environmental Audio. , 0, , 1-21.		0