Shrikanth Narayanan

List of Publications by Year
in descending order

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	End-to-end neural systems for automatic children speech recognition: An empirical study. Computer Speech and Language, 2022, 72, 101289.	2.9	7
2	Aliasing artifact reduction in spiral realâ€time MRI. Magnetic Resonance in Medicine, 2021, 86, 916-925.	1.9	6
3	Deblurring for spiral realâ€time MRI using convolutional neural networks. Magnetic Resonance in Medicine, 2020, 84, 3438-3452.	1.9	24
4	Meta-Learning for Robust Child-Adult Classification from Speech. , 2020, , .		7
5	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
6	Leveraging Linguistic Context in Dyadic Interactions to Improve Automatic Speech Recognition for Children. Computer Speech and Language, 2020, 63, 101101.	2.9	7
7	Vocal Tract Articulatory Contour Detection in Real-Time Magnetic Resonance Images Using Spatio-Temporal Context. , 2020, , .		5
8	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
9	Improving the Prediction of Therapist Behaviors in Addiction Counseling by Exploiting Class Confusions. , 2019, , .		6
10	Intermittently tagged realâ€time MRI reveals internal tongue motion during speech production. Magnetic Resonance in Medicine, 2019, 82, 600-613.	1.9	9
11	Articulatory characterization of English liquid-final rimes. Journal of Phonetics, 2019, 77, 100921.	0.6	16
12	A modular architecture for articulatory synthesis from gestural specification. Journal of the Acoustical Society of America, 2019, 146, 4458-4471.	0.5	11
13	3D dynamic MRI of the vocal tract during natural speech. Magnetic Resonance in Medicine, 2019, 81, 1511-1520.	1.9	26
14	Engineering Innovation in Speech Science: Data and Technologies. Perspectives of the ASHA Special Interest Groups, 2019, 4, 411-420.	0.4	6
15	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
16	Analysis of speech production real-time MRI. Computer Speech and Language, 2018, 52, 1-22.	2.9	36
17	Explaining Coronal Reduction: Prosodic Structure and Articulatory Posture. Phonetica, 2018, 75, 151-181.	0.3	15
18	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

#	Article	IF	Citations
19	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
20	Feasibility of throughâ€time spiral generalized autocalibrating partial parallel acquisition for low latency accelerated realâ€time MRI of speech. Magnetic Resonance in Medicine, 2017, 78, 2275-2282.	1.9	17
21	Testâ€“retest repeatability of human speech biomarkers from static and real-time dynamic magnetic resonance imaging. Journal of the Acoustical Society of America, 2017, 141, 3323-3336.	0.5	16
22	Estimation of vocal tract area function from volumetric Magnetic Resonance Imaging. , 2017, , .		8
23	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
24	Predicting couple therapy outcomes based on speech acoustic features. PLoS ONE, 2017, 12, e0185123.	1.1	22
25	Markov Chain Monte Carlo Inference of Parametric Dictionaries for Sparse Bayesian Approximations. IEEE Transactions on Signal Processing, 2016, 64, 3077-3092.	3.2	8
26	Analysis of engagement behavior in children during dyadic interactions using prosodic cues. Computer Speech and Language, 2016, 37, 47-66.	2.9	15
27	Speaker verification based on the fusion of speech acoustics and inverted articulatory signals. Computer Speech and Language, 2016, 36, 196-211.	2.9	22
28	Chapter 15 Behavioral signal processing and autism. , 2016, , 319-344.		0
29	Gestural Control in the English Past-Tense Suffix: An Articulatory Study Using Real-Time MRI. Phonetica, 2015, 71, 229-248.	0.3	6
30	Are Articulatory Settings Mechanically Advantageous for Speech Motor Control?. PLoS ONE, 2014, 9, e104168.	1.1	9
31	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
32	Developmental acoustic study of American English diphthongs. Journal of the Acoustical Society of America, 2014, 136, 1880-1894.	0.5	13
33	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
34	Robust Unsupervised Arousal Rating:A Rule-Based Framework withKnowledge-Inspired Vocal Features. IEEE Transactions on Affective Computing, 2014, 5, 201-213.	5.7	52
35	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
36	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

#	Article	IF	Citations
37	An Overview on Perceptually Motivated Audio Indexing and Classification. Proceedings of the IEEE, 2013, 101, 1939-1954.	16.4	36
38	Annotation and processing of continuous emotional attributes: Challenges and opportunities. , 2013, , .		99
39	Paralinguistics in speech and languageâ€"State-of-the-art and the challenge. Computer Speech and Language, 2013, 27, 4-39.	2.9	207
40	Behavioral Signal Processing: Deriving Human Behavioral Informatics From Speech and Language. Proceedings of the IEEE, 2013, 101, 1203-1233.	16.4	225
41	Statistical methods for estimation of direct and differential kinematics of the vocal tract. Speech Communication, 2013, 55, 147-161.	1.6	22
42	Iterative Feature Normalization Scheme for Automatic Emotion Detection from Speech. IEEE Transactions on Affective Computing, 2013, 4, 386-397.	5.7	46
43	Morphological Variation in the Adult Hard Palate and Posterior Pharyngeal Wall. Journal of Speech, Language, and Hearing Research, 2013, 56, 521-530.	0.7	34
44	Interspeaker Variability in Hard Palate Morphology and Vowel Production. Journal of Speech, Language, and Hearing Research, 2013, 56, 1924-1933.	0.7	35
45	Paralinguistic mechanisms of production in human â€œbeatboxingâ€: A real-time magnetic resonance imaging study. Journal of the Acoustical Society of America, 2013, 133, 1043-1054.	0.5	46
46	Developmental aspects of American English diphthong trajectories in the formant space. Proceedings of Meetings on Acoustics, 2013, , .	0.3	2
47	On instantaneous vocal tract length estimation from formant frequencies. Proceedings of Meetings on Acoustics, 2013, , .	0.3	1
48	Automatic recognition of emotion evoked by general sound events. , 2012, , .		27
49	Classification of emotional content of sighs in dyadic human interactions. , 2012, , .		2
50	Latent acoustic topic models for unstructured audio classification. APSIPA Transactions on Signal and Information Processing, 2012, 1, .	2.6	11
51	Emotion recognition using a hierarchical binary decision tree approach. Speech Communication, 2011, 53, 1162-1171.	1.6	274
52	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
53	Detecting emotional state of a child in a conversational computer game. Computer Speech and Language, 2011, 25, 29-44.	2.9	72
54	Tracking changes in continuous emotion states using body language and prosodic cues. , 2011, , .		26

#	Article	IF	Citations
55	Real-time magnetic resonance imaging investigation of resonance tuning in soprano singing. Journal of the Acoustical Society of America, 2010, 128, EL335-EL341.	0.5	23
56	Decision level combination of multiple modalities for recognition and analysis of emotional expression. , 2010, , .		64
57	Visual emotion recognition using compact facial representations and viseme information. , 2010, , .		40
58	Speech emotion estimation in 3D space. , 2010, , .		53
59	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
60	Automatic Detection of Disfluency Boundaries in Spontaneous Speech of Children Using Audio–Visual Information. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 2-12.	3.8	14
61	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
62	Environmental Sound Recognition With Timeâ€“Frequency Audio Features. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 1142-1158.	3.8	475
63	Timing effects of syllable structure and stress on nasals: A real-time MRI examination. Journal of Phonetics, 2009, 37, 97-110.	0.6	64
64	Assessment of emerging reading skills in young native speakers and language learners. Speech Communication, 2009, 51, 968-984.	1.6	13
65	Interpreting ambiguous emotional expressions. , 2009, , .		89
66	Acoustic topic model for audio information retrieval. , 2009, , .		39
67	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
68	Environmental sound recognition using MP-based features. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	44
69	The Vera am Mittag German audio-visual emotional speech database. , 2008, , .		246
70	Selection of Emotionally Salient Audio-Visual Features for Modeling Human Evaluations of Synthetic Character Emotion Displays. , 2008, , .		2
71	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
72	Primitives-based evaluation and estimation of emotions in speech. Speech Communication, 2007, 49, 787-800.	1.6	308

#	Article	IF	Citations
73	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
74	Where am I? Scene Recognition for Mobile Robots using Audio Features. , 2006, , .		103
75	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
76	Acoustic modeling of American English /r/. Journal of the Acoustical Society of America, 2000, 108, 343-356.	0.5	108
77	Acoustics of childrenâ€™s speech: Developmental changes of temporal and spectral parameters. Journal of the Acoustical Society of America, 1999, 105, 1455-1468.	0.5	609
78	Geometry, kinematics, and acoustics of Tamil liquid consonants. Journal of the Acoustical Society of America, 1999, 106, 1993-2007.	0.5	54
79	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
80	Detecting Politeness and frustration state of a child in a conversational computer game. , 0, , .		10
81	Unstructured Environmental Audio. , 0, , 1-21.		0