

**Audio speech & Language processing (2016)**

1	A Doubly Hierarchical Dirichlet Process HiddenMarkov Model with a Non-Ergodic Structure
2	Superdirective Beamforming Based on the Krylov Matrix
3	A Hybrid Approach for Speech Enhancement Using MoG Model and Neural Network Phoneme Classifier
4	Sensitivity of Source–Filter Interaction to Specific Vocal Tract Shapes
5	Long-Term SNR Estimation of Speech Signals in Known and Unknown Channel Conditions
6	Extraction of Acoustic Sources Through the Processing of Sound Field Maps in the Ray Space
7	Single Snapshot Detection and Estimation of Reflections From Room Impulse Responses in the Spherical Harmonic Domain
8	Multichannel Audio Source Separation With Probabilistic Reverberation Priors
9	Integration of Optimized Modulation Filter Sets into Deep Neural Networks for Automatic Speech Recognition
10	An Approach to Score Following for Piano Performances with the Sustained Effect
11	Score-Aging Calibration for Speaker Verification
12	Estimating Speech Recognition Accuracy Based on Error Type Classification
13	Adaptive compensation of mis-equalization in narrowband active noise equalizer systems
14	Blind Separation of Audio Mixtures Through Nonnegative Tensor Factorization of Modulation Spectrograms

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15	Robust Variable Step-Size Decorrelation Normalized Least-Mean-Square Algorithm and its Application to Acoustic Echo Cancellation
16	Instantaneous Fundamental Frequency Estimation with Optimal Segmentation for Non-Stationary Voiced Speech
17	Novel Unsupervised Auditory Filterbank Learning Using Convolutional RBM for Speech Recognition
18	Bayesian Networks to Model the Variability of Speaker Verification Scores in Adverse Environments
19	Kernel Method for Voice Activity Detection in the Presence of Transients
20	Composition of Deep and Spiking Neural Networks for Very Low Bit Rate Speech Coding
21	Scalable Audio Coding Using Trellis-Based Optimized Joint Entropy Coding and Quantization
22	Generation of Affective Accompaniment in Accordance With Emotion Flow
23	Very Deep Convolutional Neural Networks for Noise Robust Speech Recognition

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24	On MMSE-Based Estimation of Amplitude and Complex Speech Spectral Coefficients Under Phase-Uncertainty
25	Factorized Hidden Layer Adaptation for Deep Neural Network Based Acoustic Modeling
26	Neural Network based Multi-Factor Aware Joint Training for Robust Speech Recognition
27	Context-Dependent Piano Music Transcription With Convolutional Sparse Coding
28	A Probabilistic Modeling Approach to Hearing Loss Compensation
29	Automatic Assessment of Speech Intelligibility for Individuals With Aphasia
30	Estimation of the Direct-Path Relative Transfer Function for Supervised Sound-Source Localization
31	Monaural Music Source Separation Using Convolutional Sparse Coding
32	Efficient Training and Evaluation of Recurrent Neural Network Language Models for Automatic Speech Recognition

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33	Robust and Efficient Joint Alignment of Multiple Musical Performances
34	Compressive Sensing-Based Speech Enhancement
35	Using Agreement on Direction of Change to Build Rank-Based Emotion Classifiers
36	Automatic Environmental Sound Recognition: Performance Versus Computational Cost
37	Singing Voice Separation and Vocal F0 Estimation based on Mutual Combination of Robust Principal Component Analysis and Subharmonic Summation
38	A Loss-Augmented Approach to Training Syntactic Machine Translation Systems
39	Transition-Based Dependency Parsing Exploiting Supertags
40	Speaker Adaptation of SR-HPM for Speaking Rate-Controlled Mandarin TTS
41	Non-Parallel Training in Voice Conversion Using an Adaptive Restricted Boltzmann Machine
42	Maximum Likelihood Nonlinear Transformations Based On Deep Neural Networks

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43	An Algorithm for Predicting the Intelligibility of Speech Masked by Modulated Noise Maskers
44	Alignment of Lyrics With Accompanied Singing Audio Based on Acoustic-Phonetic Vowel Likelihood Modeling
45	Piano Transcription in the Studio Using an Extensible Alternating Directions Framework
46	Robust Room Impulse Response Measurement Using Perfect Sequences for Legendre Nonlinear Filters
47	Community-Based Weighted Graph Model for Valence-Arousal Prediction of Affective Words
48	Graph-Based Semisupervised Learning for Acoustic Modeling in Automatic Speech Recognition
49	Speaker Diarization and Linking of Meeting Data
50	Distributed Marginalized Auxiliary Particle Filter for Speaker Tracking in Distributed Microphone Networks
51	Predicting the Intelligibility of Noisy and Non-Linearly Processed Binaural Speech
52	Improving Mandarin Prosody Generation Using Alternative Smoothing Techniques
53	Towards Multi-Purpose Spectral Rhythm Features: An Application to Dance Style, Meter and Tempo Estimation
54	Parallel Reference Speaker Weighting for Kinematic-Independent Acoustic-to-Articulatory Inversion

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55	A Morphological Model for Simulating Acoustic Scenes and Its Application to Sound Event Detection
56	Abstractive Cross-Language Summarization via Translation Model Enhanced Predicate Argument Structure Fusing
57	Summarizing Meeting Transcripts Based on Functional Segmentation
58	Similar Word Model for Unfrequent Word Enhancement in Speech Recognition
59	Near and Far Field Speech-in-Noise Intelligibility Improvements Based on a Time-Frequency Energy <u>Reallocation Approach</u>
60	Spherical Harmonic Signal Covariance and Sound Field Diffuseness
61	Optimal Microphone Array Observation for Clear Recording of Distant Sound Sources
62	Differentiable Pooling for Unsupervised Acoustic Model Adaptation
63	Auditory Model-Based Dynamic Compression Controlled by Subband Instantaneous Frequency and Speech Presence Probability Estimates
64	Variational Bayesian Inference for Source Separation and Robust Feature Extraction
65	Adaptive Filtered-x Algorithms for Room Equalization Based on Block-Based Combination Schemes

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66	A Generalized Nonnegative Tensor Factorization Approach for Distant Speech Recognition with Distributed Microphones
67	Generative Modeling of Pseudo-Whisper for Robust Whispered Speech Recognition
68	Efficient Implementation of Global Variance Compensation for Parametric Speech Synthesis
69	Estimation of room acoustic parameters: The ACE Challenge
70	On the Use of Acoustic Unit Discovery for Language Recognition
71	Multichannel audio source separation with deep neural networks
72	Similarity Search of Acted Voices for Automatic Voice Casting
73	Determined Blind Source Separation Unifying Independent Vector Analysis and Nonnegative Matrix Factorization
74	Computationally Efficient and Noise Robust DOA and Pitch Estimation
75	Maximum Likelihood PSD Estimation for Speech Enhancement in Reverberation and Noise
76	Relation Classification via Modeling Augmented Dependency Paths
77	Over-Determined Source Separation and Localization Using Distributed Microphones
78	Projection-based demixing of spatial audio
79	Reduced-Order Robust Superdirective Beamforming with Uniform Linear Microphone Arrays

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80	Reverse Engineering the Amen Break – Score-informed Separation and Restoration applied to Drum Recordings
81	Semi-supervised Acoustic Model Training by Discriminative Data Selection from Multiple ASR Systems' Hypotheses
82	Signal-dependent spatial filtering based on weighted-orthogonal beamformers in the spherical harmonic domain
83	An Expectation-Maximization Algorithm for Multi-microphone Speech Dereverberation and Noise Reduction with Coherence Matrix Estimation
84	Combination of Language Models for Word Prediction: An Exponential Approach
85	Listwise Ranking Functions for Statistical Machine Translation
86	Learning Hidden Unit Contributions for Unsupervised Acoustic Model Adaptation
87	Two Efficient Lattice Rescoring Methods Using Recurrent Neural Network Language Models
88	Two Efficient Lattice Rescoring Methods Using Recurrent Neural Network Language Models

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89	A Regression Approach to Single-Channel Speech Separation Via High-Resolution Deep Neural Networks
90	A Variational EM Algorithm for the Separation of Time-Varying Convolutional Audio Mixtures
91	Semi-Supervised Sound Source Localization Based on Manifold Regularization
92	A Systematic ANSI S1.11 Filter Bank Specification Relaxation and Its Efficient Multirate Architecture for Hearing-aid Systems
93	Comparison of Loudspeaker Placement Methods for Sound Field Reproduction
94	Localization and Characterization of Multiple Harmonic Sources
95	Least-Squares Estimation of the Common Pole-Zero Filter of Acoustic Feedback Paths in Hearing Aids
96	Power-Normalized Cepstral Coefficients (PNCC) for Robust Speech Recognition
97	Learning the Multilingual Translation Representations for Question Retrieval in Community Question Answering via Non-negative Matrix Factorization
98	Spotforming: Spatial Filtering with Distributed Arrays for Position-Selective Sound Acquisition
99	Improving the Performance of the PNLMS Algorithm Using $l_1$ Norm Regularization

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100	Fusion methods for speech enhancement and audio source separation
101	Improving Trajectory Modelling for DNN-Based Speech Synthesis by Using Stacked Bottleneck Features and Minimum Generation Error Training
102	Multi-Frame Amplitude Envelope Estimation for Modification of Singing Voice
103	A Novel Method of Glottal Inverse Filtering
104	Robust Estimation and Tracking of Pitch Period Using an Efficient Bayesian Filter
105	Foreground Speech Segmentation and Enhancement using Glottal Closure Instants and Mel Cepstral Coefficients
106	Text-dependent speaker recognition with random digit strings
107	Training Deep Bidirectional LSTM Acoustic Model for LVCSR by a Context-Sensitive-Chunk BPTT Approach
108	Multiple Non-negative Matrix Factorization for Many-to-many Voice Conversion
109	A Simplified Subband ANC Algorithm without Secondary Path Modeling

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110	A Frequency-domain Adaptive Line Enhancer with Step-size Control Based on Mutual Information for Harmonic Noise Reduction
111	Improving Short Utterance Speaker Recognition by Modeling Speech Unit Classes
112	Using Generic Summarization to Improve Music Information Retrieval Tasks
113	Fast Audio Fingerprinting System Using GPU and a Clustering-Based Technique
114	A MONTAGE APPROACH TO SOUND TEXTURE SYNTHESIS
115	An Iterative Approach to Source Counting and Localization Using Two Distant Microphones
116	A Pairwise Algorithm Using the Deep Stacking Network for Speech Separation and Pitch Estimation
117	Candidate Expansion and Prosody Adjustment for Natural Speech Synthesis Using a Small Corpus
118	A Framework for Speech Enhancement with Ad Hoc Microphone Arrays
119	Text-Independent Phoneme Segmentation Combining EGG and Speech Data

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120	A Two-pass Framework of Mispronunciation Detection & Diagnosis for Computer-aided Pronunciation Training
121	Feature Adaptation Using Linear Spectro-Temporal Transform for Robust Speech Recognition
122	An Empirical Investigation of Word Class-Based Features for Natural Language Understanding
123	Scalable Discovery of Audio Fingerprint Motifs in Broadcast Streams with Determinantal Point Process based Motif Clustering
124	A Deep Ensemble Learning Method for Monaural Speech Separation
125	Binaural Noise Cue Preservation in a Binaural Noise Reduction System with a Remote Microphone Signal
126	Fundamental Frequency Informed Speech Enhancement in a Flexible Statistical Framework
127	Fundamental Frequency Informed Speech Enhancement in a Flexible Statistical Framework
128	An End-to-End Neural Network for Polyphonic Piano Music Transcription

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129	On Analytic Methods for 2.5D Local Sound Field Synthesis Using Circular Distributions of Secondary Sources
130	Automatic Transcription of Flamenco Singing from Polyphonic Music Recordings
131	Fundamental Frequency Estimation In Speech Signals With Variable Rate Particle Filters
132	A Flexible Bio-inspired Hierarchical Model for Analyzing Musical Timbre
133	Unsupervised Incremental Online Learning and Prediction of Musical Audio Signals
134	Unsupervised Incremental Online Learning and Prediction of Musical Audio Signals
135	Turbo Automatic Speech Recognition
136	Robust and Efficient Multiple Alignment of Unsynchronized Meeting Recordings
137	An Empirical Investigation of Word Class-Based Features for Natural Language Understanding
138	Preserving Word-level Emphasis in Speech-to-speech Translation
139	Personalizing Recurrent Neural Network Based Language Model by Social Network

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140	Sonority Measurement Using System, Source, and Suprasegmental Information
141	Sonority Measurement Using System, Source, and Suprasegmental Information
142	Collaborative Joint Training with Multi-task Recurrent Model for Speech and Speaker Recognition
143	Feedback-Driven Sensory Mapping Adaptation for Robust Speech Activity Detection
144	Emotion Analysis in Code-Switching Text with Joint Factor Graph Model
145	Multiplicative Update of Auto- Regressive Gains for Codebook-Based Speech Enhancement
146	IEEE SIGNAL PROCESSING SOCIETY
147	On the Evaluation of Adaptive Machine Translation for Human Post-Editing
148	Packet Loss Concealment Based on Deep Neural Networks for Digital Speech Transmission
149	A Semidefinite Programming Approach to Min-max Estimation of the Common Part of Acoustic Feedback Paths in Hearing Aids
150	The Hearing-Aid Audio Quality Index (HAAQI)

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152	Real-Time Audio-to-Score Alignment of Music Performances Containing Errors and Arbitrary Repeats and Skips
153	A Fast Method for High-Resolution Voiced/Unvoiced Detection and Glottal Closure/Opening Instant Estimation of Speech
154	Directivity Factors of the First-Order Steerable Differential Array With Microphone Mismatches: Deterministic and Worst-Case Analysis
155	Two-Stage Supervised Learning-Based Method to Detect Screams and Cries in Urban Environments
156	Speech Dereverberation Using Non-Negative Convolutional Transfer Function and Spectro-Temporal Modeling
157	Source and Filter Estimation for Throat-Microphone Speech Enhancement
158	Boosting Contextual Information for Deep Neural Network Based Voice Activity Detection
159	Robust Speech Recognition via Enhancing the Complex-Valued Acoustic Spectrum in Modulation Domain
160	Design of Directivity Patterns with a Unique Null of Maximum Multiplicity
161	Regularization Approaches for Synthesizing HRTF Directivity Patterns

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163	IEEE SIGNAL PROCESSING SOCIETY
164	Bayesian Factorization and Learning for Monaural Source Separation
165	Finite Volume Time Domain Room Acoustics Simulation under General Impedance Boundary Conditions
166	Novel Estimation Method for the Superpositional Intonation Model
167	Spatial Correlation of Radial Gaussian and Uniform Spherical Volume Near-Field Source Distributions
168	Mixture of PLDA for Noise Robust I-Vector Speaker Verification
169	Sparse Localization of Harmonic Audio Sources
170	Study of Senone-Based Deep Neural Network Approaches for Spoken Language Recognition
171	Unseen Noise Estimation Using Separable Deep Auto Encoder for Speech Enhancement
172	Using Pronunciation-Based Morphological Subword Units to Improve OOV Handling in Keyword Search
173	Speaker and Channel Factors in Text-Dependent Speaker Recognition
174	A Statistical Inverse Problem Approach to Online Secondary Path Modeling in Active Noise Control
175	Feature Extraction Using Power-Law Adjusted Linear Prediction With Application to Speaker Recognition Under Severe Vocal Effort Mismatch

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176	i-Vector Modeling of Speech Attributes for Automatic Foreign Accent Recognition
177	Towards a Small Set of Robust Acoustic Features for Emotion Recognition: Challenges
178	HMM-based Speech Segmentation: Improvements of Fully Automatic Approaches
179	Capacity-Approaching TQC-LDPC Convolutional Codes Enabling Power-Efficient Decoders
180	Noise Robust Formant Frequency Estimation Method Based on Spectral Model of Repeated Autocorrelation of Speech
181	Quadratic Programming Approach to Glottal Inverse Filtering by Joint Norm-1 and Norm-2 Optimization
182	Task Independent Fine Tuning for Word Embeddings
183	Background Noise Reduction Design for Dual Microphone Cellular Phones: Robust Approach
184	Window-Dominant Signal Subspace Methods for Multiple Short-Term Speech Source Localization
185	Single-channel Online Enhancement of Speech Corrupted by Reverberation and Noise
186	Preserving Word-level Emphasis in Speech-to-speech Translation

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192	Multiplicative Update of Auto- Regressive Gains for Codebook-Based Speech Enhancement
193	GPU-Based Dynamic Wave Field Synthesis Using Fractional Delay Filters and Room Compensation
194	A New Strategy for Online Secondary-Path Modeling of Narrowband Active Noise Control
195	Multimodal Crowdsourcing for Transcribing Handwritten Documents
196	An Analysis of Adaptive Recursive Smoothing with Applications to Noise PSD Estimation
197	An Instrumental Quality Measure for Artificially Bandwidth-Extended Speech Signals
198	Feedback Delay Networks: Echo Density and Mixing Time
199	Estimating the Structural Segmentation of Popular Music Pieces Under Regularity Constraints

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200	Combined LCMV-TRINICON beamforming for separating multiple speech sources in noisy and reverberant environments
201	Gain Scheduling of Auxiliary Noise and Variable Step-Size for Online Acoustic Feedback Cancellation in Narrow-Band Active Noise Control Systems
202	Estimating the Direct-to-Reverberant Energy Ratio Using a Spherical Harmonics-Based Spatial Correlation Model
203	Acoustic Reflector Localization: Novel Image Source Reversion and Direct Localization Methods
204	Weakly Supervised Learning of Hidden Markov Models for Spoken Language Acquisition
205	Online Estimation of Multiple Harmonic Signals
206	Online Estimation of Multiple Harmonic Signals
207	Online Estimation of Multiple Harmonic Signals
208	Online Estimation of Multiple Harmonic Signals
209	On-the-Fly Audio Source Separation—A Novel User-Friendly Framework
210	Multitask learning of context-dependent targets in deep neural network acoustic models
211	Topic-Aware Deep Compositional Models for Sentence Classification
212	Direct-to-Reverberant Energy Ratio Estimation Using a First-Order Microphone

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213	Direct-to-Reverberant Energy Ratio Estimation Using a First-Order Microphone
214	Deep Convolutional Neural Networks for Predominant Instrument Recognition in Polyphonic Music
215	Speech Intelligibility Potential of General and Specialized Deep Neural Network based Speech Enhancement Systems
216	Score-Informed Analysis of Tuning, Intonation, Pitch Modulation, and Dynamics in Jazz Solos
217	Direction of Arrival Estimation in the Spherical Harmonic Domain using Subspace Pseudo-Intensity Vectors
218	Mispronunciation Detection and Diagnosis in L2 English Speech Using Multi-Distribution Deep Neural Networks
219	Relaxed Binaural LCMV Beamforming
220	Score-Informed Analysis of Tuning, Intonation, Pitch Modulation, and Dynamics in Jazz Solos
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222	Relaxed Binaural LCMV Beamforming
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225	Single Sideband Frequency Offset Estimation and Correction for Quality Enhancement and Speaker Recognition
226	Modeling Latent Topics and Temporal Distance for Story Segmentation of Broadcast News
227	A Reverberation-Time-Aware Approach to Speech Dereverberation Based on Deep Neural Networks
228	A Reverberation-Time-Aware Approach to Speech Dereverberation Based on Deep Neural Networks
229	Phone Synchronous Speech Recognition With CTC Lattices
230	Robust Downbeat Tracking Using an Ensemble of Convolutional Networks

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