

IEEE/ACM TRANSACTIONS ON AUDIO, SPEECH, AND LANGUAGE PROCESSING

A PUBLICATION OF THE IEEE SIGNAL PROCESSING SOCIETY



www.signalprocessingsociety.org

Indexed in PubMed® and MEDLINE®, products of the United States National Library of Medicine



MARCH 2019

VOLUME 27

NUMBER 3

ITASFA

(ISSN 2329-9290)

REGULAR PAPERS

Information Loss in the Human Auditory System	<i>M. Z. Jahromi, A. Zahedi, J. Jensen, and J. Østergaard</i>	472
Incoherent Synthesis of Sparse Arrays for Frequency-Invariant Beamforming	<i>Y. Buchris, A. Amar, J. Benesty, and I. Cohen</i>	482
Privacy-Preserving iVector-Based Speaker Verification	<i>Y. Rahulamathavan, K. R. Sutharsini, I. G. Ray, R. Lu, and M. Rajarajan</i>	496
Attention With Sparsity Regularization for Neural Machine Translation and Summarization	<i>J. Zhang, Y. Zhao, H. Li, and C. Zong</i>	507
Noise Covariance Matrix Estimation for Rotating Microphone Arrays	<i>A. H. Moore, W. Xue, P. A. Naylor, and M. Brookes</i>	519
Emotion-Semantic-Enhanced Neural Network	<i>G. Yang, H. He, and Q. Chen</i>	531
Comparative Analysis of Generalized Sidelobe Cancellation and Multi-Channel Linear Prediction for Speech Dereverberation and Noise Reduction	<i>T. Dietzen, A. Spriet, W. Tirry, S. Doclo, M. Moonen, and T. van Waterschoot</i>	544
Mixed-Bandwidth Cross-Channel Speech Recognition via Joint Optimization of DNN-Based Bandwidth Expansion and Acoustic Modeling	<i>J. Gao, J. Du, and E. Chen</i>	559
Recurrent Neural Network Language Model Adaptation for Multi-Genre Broadcast Speech Recognition and Alignment	<i>S. Deena, M. Hasan, M. Doulaty, O. Saz, and T. Hain</i>	572
Subjective Evaluation of a Noise-Reduced Training Target for Deep Neural Network-Based Speech Enhancement	<i>F. B. Gelderblom, T. V. Tronstad, and E. M. Viggen</i>	583



Low-Complexity Multi-Microphone Acoustic Echo Control in the Short-Time Fourier Transform Domain	<i>M. L. Valero and E. A. P. Habets</i>	595
Robust Personal Audio Geometry Optimization in the SVD-Based Modal Domain	<i>Q. Zhu, P. Coleman, X. Qiu, M. Wu, J. Yang, and I. Burnett</i>	610
Language-Adversarial Transfer Learning for Low-Resource Speech Recognition	<i>J. Yi, J. Tao, Z. Wen, and Y. Bai</i>	621
Sequence-to-Sequence Acoustic Modeling for Voice Conversion	<i>J.-X. Zhang, Z.-H. Ling, L.-J. Liu, Y. Jiang, and L.-R. Dai</i>	631
Multichannel Speech Separation and Enhancement Using the Convolutional Transfer Function	<i>X. Li, L. Girin, S. Gannot, and R. Horaud</i>	645

EDICS—Editors’ Information Classification Scheme		
Information for Authors		
