

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

A PUBLICATION OF THE IEEE SIGNAL PROCESSING SOCIETY



[www.signalprocessingsociety.org](http://www.signalprocessingsociety.org)

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



OCTOBER 2018

VOLUME 26

NUMBER 10

ITASFA

(ISSN 2329-9290)

---

## OVERVIEW ARTICLE

- Supervised Speech Separation Based on Deep Learning: An Overview ..... *D. Wang and J. Chen* 1702
- 

## REGULAR PAPERS

- Sentence Selection and Weighting for Neural Machine Translation Domain Adaptation ..... *R. Wang, M. Utiyama, A. Finch, L. Liu, K. Chen, and E. Sumita* 1727
- Using Visual Speech Information in Masking Methods for Audio Speaker Separation ..... *F. U. Khan, B. P. Milner, and T. L. Cornu* 1742
- Multichannel Identification and Nonnegative Equalization for Dereverberation and Noise Reduction Based on Convulsive Transfer Function ..... *X. Li, S. Gannot, L. Girin, and R. Horaud* 1755
- Semantic Structure and Interpretability of Word Embeddings ..... *L. K. Senel, İ. Utlu, V. Yücesoy, A. Koç, and T. Çukur* 1769
- DNN-Based Source Enhancement to Increase Objective Sound Quality Assessment Score ..... *Y. Koizumi, K. Niwa, Y. Hioka, K. Kobayashi, and Y. Haneda* 1780
- Linear System Identification Based on a Kronecker Product Decomposition ..... *C. Paleologu, J. Benesty, and S. Ciochină* 1793
- Exploring Auditory-Inspired Acoustic Features for Room Acoustic Parameter Estimation From Monaural Speech ..... *F. Xiong, S. Goetze, B. Kollmeier, and B. T. Meyer* 1809
- An Adaptive Method for Cross-Recording Speaker Diarization ..... *G. L. Lan, D. Charlet, A. Larcher, and S. Meignier* 1821
- 



---

Modulation-Domain Multichannel Kalman Filtering for Speech Enhancement .....	W. Xue, A. H. Moore, M. Brookes, and P. A. Naylor	1833
Multisource DOA Estimation in a Reverberant Environment Using a Single Acoustic Vector Sensor .....	K. Wu, V. G. Reju, and A. W. H. Khong	1848
Entity Highlight Generation as Statistical and Neural Machine Translation .....	J. Huang, Y. Sun, W. Zhang, H. Wang, and T. Liu	1860
Sequence-to-Sequence Models for Emphasis Speech Translation .....	Q. T. Do, S. Sakti, and S. Nakamura	1873
Explicit Fixed-Point Computation of Nonlinear Delay-Free Loop Filter Networks .....	F. Fontana and E. Bozzo	1884
Causal IIR Audio Precompensator Filters Subject to Quadratic Constraints .....	S. Widmark	1897
Colouration in Local Wave Field Synthesis .....	F. Winter, H. Wierstorf, C. Hold, F. Krüger, A. Raake, and S. Spors	1913
Nonintrusive Speech Intelligibility Prediction Using Convolutional Neural Networks .....	A. H. Andersen, J. Mark de Haan, Z.-H. Tan, and J. Jensen	1925
EDICS—Editor’s Information Classification Scheme .....		1940
Information for Authors .....		1942

---