

List of Publications

Pejman Mowlae

In summary, I published one **book** at John Wiley & Sons as the main leading author (70% contribution) and 15 journals and 50 conference papers (Citations = 888 , h-index = 18). Below is the list of all publications, including bibliometric data. Copies of the publications are provided in the hyperlinks below each entry.

Book

- [B1] P. Mowlae (Main author), J. Kulmer, J. Stahl, F. Mayer, Single-Channel Phase-Aware Signal Processing in Speech Communication, John Wiley and Sons, Dec. 2016 (Citations = 7).

Theses

- [T1] P. Mowlae, Speech Signal Processing, Habilitation thesis, Graz University of Technology, Austria, November 2016.
- [T2] P. Mowlae, New Strategies for Single-channel Speech Separation," Ph.D. dissertation, Institut for Elektroniske Systemer, Aalborg University, Aalborg, Denmark, Dec. 2010 (Citations=13). [Online]. Available: <http://www2.spsc.tugraz.at/people/pmowlae/PhDThesis>
- [T3] P. Mowlae, Thesis: Microphone Arrays Noise reduction and DOA estimation, in Farsi, Master of science thesis, Iran University of Science and Technology, Tehran, Iran, 2006.
- [T4] P. Mowlae, Adaptive Filters and their application in echo cancellation, in Farsi, Bachelor of science thesis, Guilan University of technology, Rasht, Iran.

Patent

- [P1] P. Mowlae, R. Saeidi, G. Kubin, Iterative closed-loop speech enhancement," European Patent 2840570 A1 , August 8, 2013.

Journals

- [J1] J. Stahl, P. Mowlae, Detection and Estimation of Stochastic and Deterministic Components for Speech Enhancement, submitted to IEEE Transactions on Audio, Speech and Language Processing, 2017.
- [J2] P. Mowlae, M. Blass, and B. Kleijn, New Results in Modulation-Domain Single-Channel Speech Enhancement, to appear in IEEE Transactions on Audio, Speech and Language Processing, 2017.
- [J3] F. Mayer, D. Williamson, P. Mowlae, D. Wang, Phase Estimation for Improved Single-Channel Source Separation based on Time-Frequency Masking, Journal of Acoustic Society of America, vol. 141, no. 6, 2017 (Citations = 1).
- [J4] P. Mowlae, J. Stahl, J. Kulmer, Iterative joint MAP single-channel speech enhancement given non-uniform phase prior, Speech Communication, vol. 86, C, pp. 85-96, February 2017 (Citations = 1). Available: <http://www.sciencedirect.com/science/article/pii/S0167639316300188>
- [J5] P. Mowlae, R. Saeidi, Y. Stylianou, Advances in phase-aware signal processing in speech communication, Speech Communication Elsevier, vol. 81, pp. 1-29, July 2016 (Citations = 23).

Available: <http://www.sciencedirect.com/science/article/pii/S0167639316300784>

- [J6] P. Mowlae, J. Kulmer, Harmonic Phase Estimation in Single-Channel Speech Enhancement Using Phase Decomposition and SNR Information, *IEEE Trans. on Audio, Speech, and Language Processing*, vol. 23, no. 9, pp.1521-1532, Sept. 2015 (Citations = 19).
Available: <http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7115078>
- [J7] P. Mowlae, J. Kulmer, Phase Estimation in Single-Channel Speech Enhancement: Limits-Potential, *IEEE Trans. on Audio, Speech, and Language Processing*, vol. 23, no. 8, pp. 1283-1294, August 2015 (Citations = 24).
Available: <http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7103305>
- [J8] J. Kulmer, P. Mowlae, Phase Estimation in Single-Channel Speech Enhancement Using Phase Decomposition, *IEEE Signal Processing Letters*, vol. 22, no. 5, pp. 598-602, May, 2015 (Citations = 21).
Available: <http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=6936313>
- [J9] P. Mowlae, R. Saeidi, Iterative Closed-Loop Phase-Aware Single-Channel Speech Enhancement, *IEEE Signal Processing Letters*, vol. 20 No. 12, pp. 1235-1239, 2013 (Citations = 50).
Available: <http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=6642084>
- [J10] R. F. Astudillo, D. Kolossa, A. Abad, S. Zeiler, R. Saeidi, P. Mowlae, J. P. da Silva Neto, R. Martin, Integration of Beamforming and Uncertainty-of-Observation Techniques for Robust ASR in Multi-Source Environments, to appear in Special Issue on Speech Separation and Recognition in Multisource Environments, *Elsevier Journal in Computer Speech & Language*, 27(3), pp. 837-850, 2013 (Citations = 17).
Available: <http://www.sciencedirect.com/science/article/pii/S0885230812000575>
- [J11] P. Mowlae, R. Saeidi, Z.-H. Tan, M. G. Christensen, T. Kinnunen, P. Fränti, S. H. Jensen, A Joint Approach for Single-Channel Speaker Identification and Speech Separation, *IEEE Transactions on Audio, Speech and Language Processing*, vol. 20, no. 9, pp. 2586-2601, 2012 (Citations = 25).
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Available: <http://link.springer.com/article/10.1631%2Fjzus.C1000020>
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Available: <http://link.springer.com/article/10.1631%2Fjzus.C1000020>

Peer Reviewed Conferences

- [C1] M. Pirolt, J. Stahl, P. Mowlae, V. I. Vorobiov, S. Y. Barysenka, A. G. Davydov, Phase Estimation in Single-Channel Speech Enhancement Using Phase Invariance Constraints, *ICASSP, 2017* (Citations = 1).

Available: <https://sigport.org/documents/phase-estimation-single-channel-speech-enhancement-using-phase-invariance-constraints-0>

- [C2] T. Schrank, L. Pfeifenberger, M. Zöhrer, J. Stahl, P. Mowlaee, and F. Pernkopf, "Deep Beamforming and Data Augmentation for Robust Speech Recognition: Results of 4th CHiME Challenge", 2016 (Citations = 1). Available: http://spandh.dcs.shef.ac.uk/chime_workshop/papers/CHiME_2016_paper_14.pdf
- [C3] J. Stahl, P. Mowlaee, Iterative Harmonic Speech Enhancement, ITG, in Proc., 2016 (Citations = 1). Available: <http://ieeexplore.ieee.org/document/7776141>
- [C4] J. Fahringer, T. Schrank, J. Stahl, P. Mowlaee, F. Pernkopf, Phase-Aware Signal Processing for Automatic Speech Recognition, INTERSPEECH, 2016 (Citations = 2). Available: http://www.isca-speech.org/archive/Interspeech_2016/pdfs/0823.PDF
- [C5] M. Blass, P. Mowlaee, B. Kleijn, Single-Channel Speech Enhancement Using Double Spectrum, INTERSPEECH, in Proc., 2016 (Citations = 1). Available: http://www.isca-speech.org/archive/Interspeech_2016/pdfs/0234.PDF
- [C6] J. Stahl, P. Mowlaee, J. Kulmer, Phase-processing for voice activity detection: A statistical approach, in Proc. EUSIPCO, 2016 (Citations = 1). Available: <http://ieeexplore.ieee.org/document/7760439/>
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- [C9] A. Gaich, P. Mowlaee, On Speech Intelligibility Estimation of Phase-Aware Single-Channel Speech Enhancement, INTERSPEECH, pp. 2553-2557, 2015 (Citations = 6). Available: http://www.isca-speech.org/archive/interspeech_2015/papers/i15_2553.pdf
- [C10] J. Kulmer, P. Mowlaee, Harmonic Phase Estimation in Single-Channel Speech Enhancement Using Von Mises Distribution and Prior SNR, ICASSP, pp. 5063 - 5067, 2015 (Citations = 11). Available: https://www.spsc.tugraz.at/sites/default/files/MAP_ICASSP2015.pdf
- [C11] A. Gaich, P. Mowlaee, On Speech Quality Estimation of Phase-Aware Single-Channel Speech Enhancement, ICASSP, Apr. 2015 (Citations = 12). Available: https://www.spsc.tugraz.at/sites/default/files/Andreas_ICASSP2015.pdf
- [C12] J. Kulmer, P. Mowlaee, M. Watanabe, A Probabilistic Approach for Phase Estimation in Single-Channel Speech Enhancement Using Von Mises Phase Priors, in Proc. Machine Learning for Signal Processing, France, Sept. 2014 (Citations = 10). Available: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6958861
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