

# List of Publications

*Pejman Mowlae*

In summary, I published one **book** at John Wiley & Sons as the main leading author (70% contribution) and 20 journals and 50 conference papers (Citations = 1174 , h-index = 20). 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 = 25).

## 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=14).  
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] Pejman Mowlae, Lars Dalskov Mosgaard, Thomas Elmedyb, Michael Pihl, Georg Stiefenhofer, David Pelegrin-Garcia, "METHOD OF OPERATING A HEARING AID SYSTEM AND A HEARING AID SYSTEM", TW10577WO, November, 2018.
- [P2] Lars Dalskov Mosgaard, Thomas Elmedyb, Pejman Mowlae, Michael Pihl, David Pelegrin-Garcia, "METHOD OF OPERATING A HEARING AID SYSTEM AND A HEARING AID SYSTEM", TW10568DK, August 2018.
- [P3] Lars Dalskov Mosgaard, Thomas Elmedyb, Pejman Mowlae, Michael Pihl, David Pelegrin-Garcia, METHOD OF OPERATING A HEARING AID SYSTEM AND A HEARING AID SYSTEM, TW10565DK, August, 2018.
- [P4] Thomas Elmedyb, Lars Dalskov Mosgaard, Pejman Mowlae, Georg Stiefenhofer, Adam Westermann, Michael Pihl, METHOD OF OPERATING A HEARING AID SYSTEM AND A HEARING AID SYSTE, TW10524DK, April, 2018.
- [P5] P. Mowlae, R. Saeidi, G. Kubin, Iterative closed-loop speech enhancement, European Patent 2840570 A1 , August 8, 2013.

## Journals

- [J1] J. Stahl, S. Wood, P. Mowlaee, "Signal Reconstruction from Modified STFT given Ambiguous Spectral Phase Information", in preparation for submission to IEEE Signal Processing Letters.
- [J2] S. Wood, J. Stahl, P. Mowlaee, "Binaural Noise Reduction and Dereverberation with Coherence Enhancement in the Atomic Spectro-temporal Modulation Domain", in preparation for submission to IEEE Transactions on Audio, Speech and Language Processing.
- [J3] J. W. Shin, J. Pak, P. Mowlaee, Phase Estimation for Speech Enhancement Based on Deep Neural Networks, submitted to Digital Signal Processing.
- [J4] S. Wood, J. Stahl, P. Mowlaee, Atomic Speech Presence Probability Estimation: Universal Codebook-based Binaural Speech Enhancement, to appear in IEEE Transactions on Audio, Speech and Language Processing.
- [J5] J. Stahl, S. Wood, P. Mowlaee, Single-Channel Speech Enhancement with Correlated Spectral Components: Limits-Potential, submitted to IEEE Transactions on Signal Processing.
- [J6] J. Stahl, P. Mowlaee, Exploiting Temporal Correlation in Pitch-Adaptive Speech Enhancement, Speech Communication, Volume 111, Pages 1-13, August 2019 (Citations = 1). Available: <https://www.sciencedirect.com/science/article/abs/pii/S0167639318303303>
- [J7] J. Stahl, P. Mowlaee, "A pitch-synchronous simultaneous detection-estimation framework for speech enhancement", IEEE/ACM Transactions on Audio, Speech and Language Processing, pp. 436-450, vol. 26, No. 2, 2018 (Citations = 3). Available: <https://ieeexplore.ieee.org/document/8125741>
- [J8] S. Y. Barysenka, V. I. Vorobiov, P. Mowlaee, "Single-channel speech enhancement using inter-component phase relations", Speech Communication, vol. 99, pp. 144-160, 2018 (Citations = 2). Available: <https://www.sciencedirect.com/science/article/abs/pii/S0167639317303540>
- [J9] P. Mowlaee, M. Blass, and B. Kleijn, New Results in Modulation-Domain Single-Channel Speech Enhancement, IEEE Transactions on Audio, Speech and Language Processing, vol. 25, no. 11, pp. 2125-2137, 2017 (Citations = 3). Available: <http://ieeexplore.ieee.org/document/8022920/>
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- [J12] P. Mowlaee, R. Saeidi, Y. Stylianou, Advances in phase-aware signal processing in speech communication, Speech Communication Elsevier, vol. 81, pp. 1-29, July 2016 (Citations = 66). Available: <http://www.sciencedirect.com/science/article/pii/S0167639316300784>
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- [J17] R. F. Astudillo, D. Kolossa, A. Abad, S. Zeiler, R. Saeidi, P. Mowlaee, J. P. da Silva Neto, R. Martin, Integration of Beamforming and Uncertainty-of-Observation Techniques for Robust ASR in Multi-Source Environments, *Computer Speech & Language*, 27(3), pp. 837–850, 2013 (Citations = 17). Available: <http://www.sciencedirect.com/science/article/pii/S0885230812000575>
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## Peer Reviewed Conferences

- [C1] P. Mowlaee, D. Scheran, J. Stahl, S. U. N. Wood, and W. B. Kleijn, Maximum a posteriori speech enhancement based on double spectrum, to appear in INTERSPEECH 2019. Available: <https://www.interspeech2019.org/program>
- [C2] L. D. Mosgaard, D. P. Garcia, T. B. Elmedyby, M. J. Pihl, P. Mowlaee, “Circular Statistics-based low complexity DOA estimation for hearing aid application”, IWAENC 2018. Available: <https://arxiv.org/pdf/1812.06697>
- [C3] J. Stahl, P. Mowlaee, “A Simple and Effective Framework for a Priori SNR Estimation”, ICASSP, pp. 5644-5648, 2018 (Citations = 3). Available: <https://ieeexplore.ieee.org/document/8461787>
- [C4] M. Pirolt, J. Stahl, P. Mowlaee, V. I. Vorobiov, S. Y. Barysenka, A. G. Davydov, Phase Estimation in Single-Channel Speech Enhancement Using Phase Invariance Constraints, ICASSP, 2017 (Citations = 4). Available: <https://sigport.org/documents/phase-estimation-single-channel-speech-enhancement-using-phase-invariance-constraints-0>

- [C5] 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 = 4). Available: [http://spandh.dcs.shef.ac.uk/chime\\_workshop/papers/CHiME\\_2016\\_paper\\_14.pdf](http://spandh.dcs.shef.ac.uk/chime_workshop/papers/CHiME_2016_paper_14.pdf)
- [C6] J. Stahl, P. Mowlaee, Iterative Harmonic Speech Enhancement, ITG, in Proc., 2016 (Citations = 2). Available: <http://ieeexplore.ieee.org/document/7776141>
- [C7] J. Fahringer, T. Schrank, J. Stahl, P. Mowlaee, F. Pernkopf, Phase-Aware Signal Processing for Automatic Speech Recognition, INTERSPEECH, 2016 (Citations = 5). Available: [http://www.isca-speech.org/archive/Interspeech\\_2016/pdfs/0823.PDF](http://www.isca-speech.org/archive/Interspeech_2016/pdfs/0823.PDF)
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