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REFERENCES

- [1] Mitianoudis N., Stathaki T. (2007). Batch and online underdetermined source separation using alpaca mixture models, *IEEE Transactions on Audio, Speech and Language Processing*, Vol. 15, No. 6, pp. 1818-1832.
- [2] Pedersen M.S., Wang D.L., Larsen J., Kjems U. (2008). Two- microphones separation of speech mixtures, *IEEE Transactions on Neural Networks*, Vol. 19, No. 3, pp. 475-492. DOI: [10.1109/TNN.2007.911740](https://doi.org/10.1109/TNN.2007.911740)
- [3] Hiroshi S., Shoko A., Shoji M. (2011). Underdetermined convolutive blind source separation via frequency bin-wise clustering and permutation alignment, *IEEE Transactions on Audio, Speech, and Language Processing*, Vol. 19, No. 3, pp. 516-527. DOI: [10.1109/TASL.2010.2051355](https://doi.org/10.1109/TASL.2010.2051355)
- [4] Rivet B., Girin L., Jutten C. (2007). Mixing audiovisual speech processing and blind source separation for the extraction of speech signals from convolutive mixtures, *IEEE Trans on Audio, Speech and Language Processing*, Vol. 15, No. 1, pp. 96-108. DOI: [10.1109/TASL.2006.872619](https://doi.org/10.1109/TASL.2006.872619)
- [5] Kirei B.S., Topa M., Muresan I., Homana I., Toma N. (2011). Blind source separation for convolutive mixtures with neural networks, *Advances in Electrical and Computer Engineering*, Vol. 11, pp. 63-68. DOI: [10.4316/AECE.2011.01010](https://doi.org/10.4316/AECE.2011.01010)
- [6] Prasad R., Saruwatari H., Shikano K. (2009). Enhancement of speech signals separated from their convolutive mixture by FDICA algorithm, *Digital Signal Processing*, Vol. 19, pp. 127-133. DOI: [10.1016/j.dsp.2008.01.007](https://doi.org/10.1016/j.dsp.2008.01.007)
- [7] Wang L., Ding H., Yin F. (2010). An improved method for permutation correction in convolutive blind source separation, *Archives of Acoustics*, Vol. 35, No. 4, pp. 493-504. DOI: [10.2478/v10168-010-0038-9](https://doi.org/10.2478/v10168-010-0038-9)
- [8] Guo W., Yu F.Q. (2015). Improved speech music signal separation based on negative entropy maximization, *Computer Engineering and Application*, Vol. 51, No. 4, pp. 209-212. DOI: [10.3778/j.issn.1002-8331.1306-0039](https://doi.org/10.3778/j.issn.1002-8331.1306-0039)
- [9] Zhang Y.Y., Xin J.H., Liu G.B. (2016). Applications of combined with cumulant slice joint diagonalization of blind source separation, *Journal of Huazhong University of Science and Technology (Natural Science)*, Vol. 44, No. 7, pp. 86-90. DOI: [10.13245/j.hust.160717](https://doi.org/10.13245/j.hust.160717)
- [10] Zhou J. (2016). Research of underdetermined source estimation and blind extraction method for mechanical fault signals, *Doctoral Dissertation of Kunming University*, pp. 38-45.
- [11] Yang J.M., Qi H.Y. (2015). Improved nonlinear blind source separation algorithm based on the minimization of mutual information, *Electric Measurement and Instrument*, Vol. 52, No. 9, pp. 66-69. DOI: [10.3969/j.issn.1001-1390.2015.09.013](https://doi.org/10.3969/j.issn.1001-1390.2015.09.013)