Abstract

The word is surrounded by sounds what makes it difficult when it becomes impossible to obtain a desired speech because of the noisy environment. Thus, digital signal processing is a discipline that interest to extract useful information on physical phenomena from measures generally disturbed. Its most well know problem is the blind sources separation which is a specific method that in which several signals have been mixed and the purpose is to recover the original component signals from the mixed signals without any knowledge about the sources.

This work, provides some of many existing algorithms solving the problem of blind source separation the most known in literature and at the end of this article there are some examples applied to real-world audio separation tasks using Matlab.

References

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Index Terms

Computer Science
Signal Processing
Keywords

Blind source separation (BSS); convolutive mixture; instant linear mixture; independent component analysis; principle component analysis.