

# Beyond linear ICA

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## Abstract

Usually, ICA (as well as PCA) are restricted to linear models. However, observed data or signals are often associated to nonlinear models of primary factors or sources. Then, in such cases, one can wonder on the relevance of a linear decomposition in principal or independent components. In this talk, we review recent results concerning nonlinear ICA, especially concerning uniqueness, and applications to blind source separation in non linear mixtures. We especially introduce a general framework for nonlinear ICA, derived from "old" results in factorial analysis due to Darmois in 50's, and Kagan et al. in 70's.

## References

Autor1, Autor2 (year). Title etc..  
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