

Lieven De Lathauwer  
K.U.Leuven, Belgium

## **An Introduction to Tensor-Based Independent Component Analysis**

Independent component analysis aims at the blind separation of a mixture of statistically independent signals. Algebraic solutions are based on the computation of tensor decompositions. The actual source separation involves variants of the candecomp/parafac decomposition, with or without orthogonality constraints. Dimensionality reduction can be achieved by means of Tucker compression.