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Jean-Luc Starck*, Service d'Astrophysique, Centre d'Études de Saclay. *Generalized Morphological Component Analysis: From Images to Hyperspectral Data.*

The Morphological Component Analysis (MCA) is a method which allows us to separate features contained in an image when these features present different morphological aspects. We show that MCA can be extended to multichannel data (GMCA) and that GMCA is a very interesting alternative to standard blind source separation techniques. Then we show how GMCA can be used for different astronomical applications, especially for recovering the Cosmic Microwave Background from multichannel observations. (Received July 03, 2007)