



Workshop on
Transform Based on
Independent Component Analysis
for Audio, Video and Hyperspectral Images
Data Reduction and Coding

TBICA 2006

Paris, France July 6-7, 2006

CNRS, 27 rue Michel Ange, Paris

Objectives of the Workshop:

The aim of this workshop is to provide an overview of the Transform Based Independent Component Analysis (ICA) methods in different applications such as audio, video and multi- or hyper-spectral image processing (data reduction and coding). By transform based on ICA, we mean any representation of multi-dimensional data that maximizes the reduction of redundancy between components.

A non-exhaustive list of subjects:

- Redundancy and diversity measures and criteria
- New ICA and source separation methods based on static, dynamic and spectral distribution diversities
- Combining different transform methods and ICA for a better compression
- Construction of dictionaries for sparse coding
- Signal and image analysis for coding only objects of interests

The selected papers will be edited in a proceeding and distributed to all the participants.

Registration fees

- Normal 200 Euros
- Students 100 Euros

This Workshop is partially supported by the French Ministry of Research and Higher Education.

The workshop will provide an open-forum for sharing experiences and knowledge between all the participants. The workshop will be organized in a single session with oral presentations, a poster session and a round table discussion.

Organising committee

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Papers selection

Papers will be selected on the basis of abstracts of nearly 500 words in length. Abstracts should be submitted in electronic format (pdf or doc) by email to
TBICA2006@supelec.fr

Deadlines

- Submission of abstracts : February 28, 2006
- Acceptation notice : Mars 28, 2006
- Full 4 pages paper and registration : May 28, 2006

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