

**PROJECT / Statistical and Structural
Learning: Applications in Multimedia Data
Mining and Retrieval**

SSL-AMDMR

Main Objective:

The focus are statistical and structural learning techniques. Exploratory analysis (mining) and content-based retrieval of multimedia data serve both as a practically relevant application domain, and as a source of challenging problems. The Goals to be pursued:

- new unsupervised learning criteria (i.e., simultaneous feature and model selection);
- unsupervised learning methods under a model-based framework and/or new clustering criteria;
- new dissimilarity measures, adequate for various types of representation (strings, quantitative, and hybrid), typically found in multimedia;
- combination of different types of representation in a coherent framework for similarity computation;
- comparison and blending of different clustering techniques / criteria into a workable methodology;
- efficiency and scalability of learning algorithms.

Reference: POSI/33143/SRI/2000, Funding: FCT/POSI, Start Date: 01-01-2001

Team: [Mário Alexandre Teles de Figueiredo](#), [Ana Luisa Nobre Fred](#)

Groups: [Pattern and Image Analysis – Lx](#)

Local Coordinator: [Mário Alexandre Teles de Figueiredo](#)
