Project proposals
Project proposals

• PATTERN RECOGNITION
  – Finger print matching or character recognition
    • Image processing techniques for extracting features of interest
    • Evaluation of different methodologies
Project proposals

- **PATTERN RECOGNITION**
  - Finger print matching or character recognition
    - Image processing techniques for extracting features of interest
    - Evaluation of different methodologies
  - Image processing for face recognition
    - Extract image-representation basis from a set of training data; eigen faces; fisher faces
    - Morphological operations to isolate and identify faces
Project proposals

• MOTION
  – Motion estimation using trajectories
    • Spatial and temporal interpolation techniques
    • Superresolution from videos
    • Creating panoramas from videos
Vector field function of the spatio-temporal image brightness variations
Project proposals

• MOTION
  – Motion estimation using trajectories
    • Spatial and temporal interpolation techniques
    • Superresolution from videos
    • Creating panoramas from videos
  – Reconstruction in MR imaging
    • motion correction and reconstruction in MR imaging
    • fieldmaps that are used to correct for these distortions can vary drastically with patient motion
Project proposals

• RESTORATION
  – Image restoration methods
  – Image Completion
Project proposals

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*Image Inpainting, M. Bertalmío et al.*
http://www.iua.upf.es/~mbertalmio/restoration.html
Project proposals

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  - Image restoration methods
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Project proposals

• SEGMENTATION
  – Interactive segmentation of medical images using snakes