Laboratory on "Restoration of Medical Imaging" (9-13 July)

Using real data, acquired through imaging tools, the workshop-laboratory will investigate some reconstruction methods for medical imaging showing computationally efficient implementations.

Lecturers:

- Anna Maria Massone, Centro Nazionale delle Ricerche
- Stephan Nekolla, Technische Universitaet Muenchen

Detailed program:

- **Introduction**
    - Structural imaging and functional imaging in medicine
- **Part I: Integration of medical functional and anatomic images**
    - Keynote lecture: PET/MRI: a new intermodal approach to medical imaging
    - Preparation to the laboratory: Data formation in PET and CT; Pattern recognition and integration: the Hough transform
    - Applications: Identification of bone marrow and spinal cord PET/CT data and metabolic evaluation
- **Part II: Presentations of project developed in Laboratory**