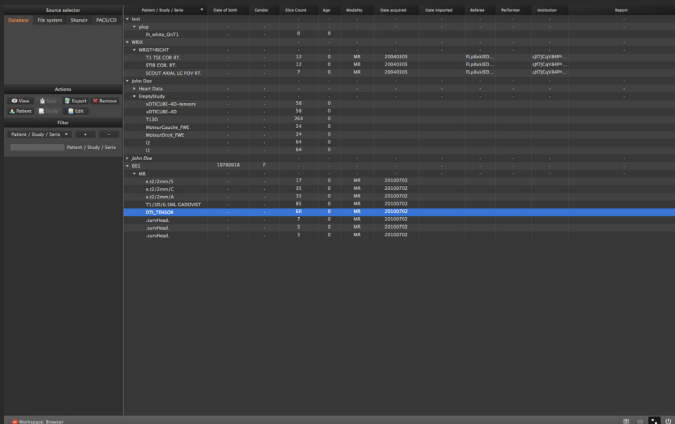


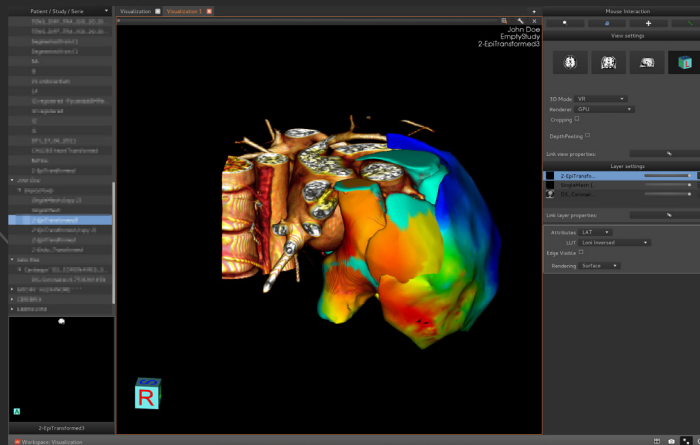
# Database

- Editable patient oriented database
- DICOM import
- Support for all ITK, VTK file formats



- Thumbnail browsing
- PACS and other external database interrogation

# Clinical applications



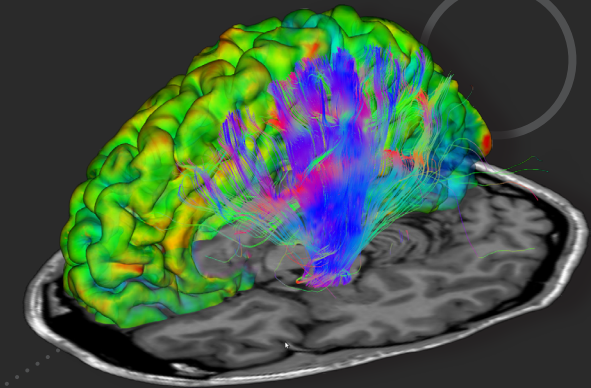
*Fusion of anatomical images and electrophysiological data for interventional guidance of cardiac catheter-based therapy*

- *Teams involved: Asclepios, Athena, Parietal, Visages*
- *Open-source core (BSD license)*
- *Website link / contact:*  
***<http://med.inria.fr>***  
***[medinria@inria.fr](mailto:medinria@inria.fr)***
- *Work in progress:*  
*Tensor-based / Surface registration*  
*Semi-automatic segmentation*  
*Python wrapping*  
*Workflow implementation*



medInria

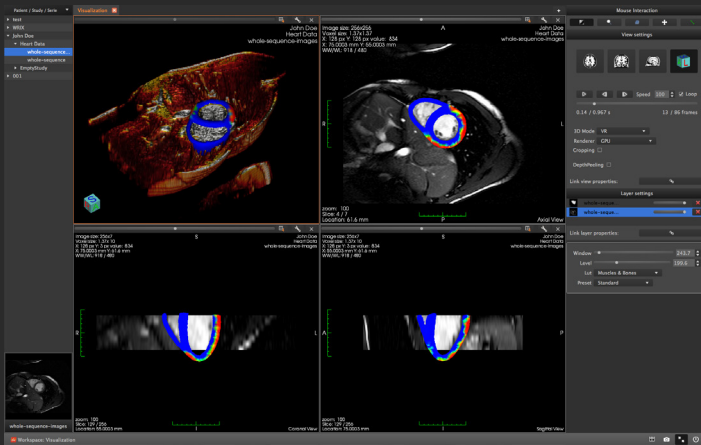
MEDICAL IMAGE PROCESSING AND VISUALIZATION SOFTWARE



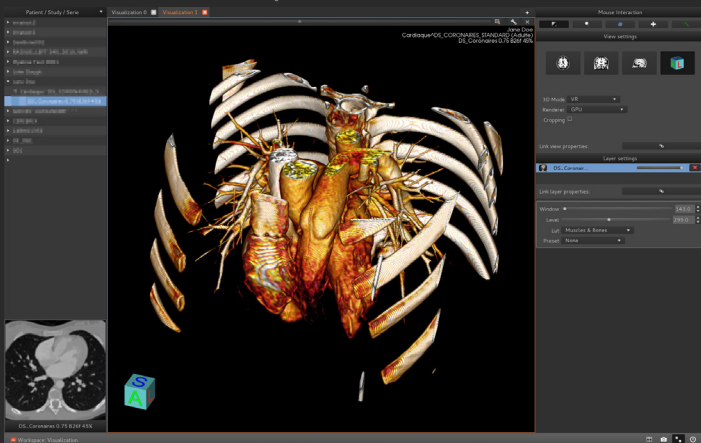
Free and extensible  
High-level algorithms  
Ergonomic and reactive interface



# Viewer

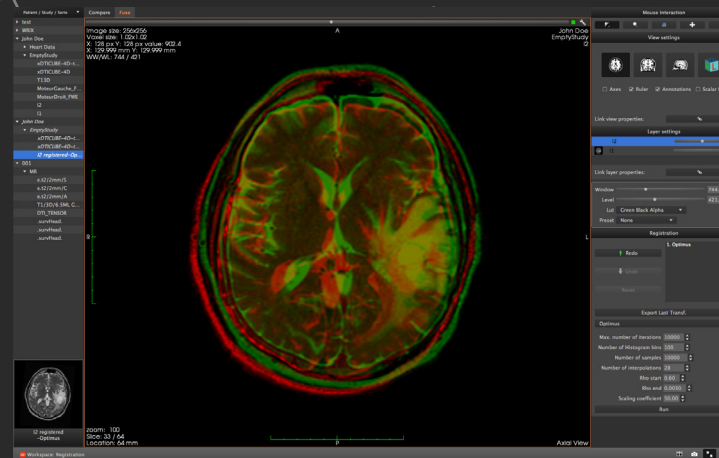


- 2D and 3D images
- Multi-layer display
- Surface and volume meshes
- Time sequences
- Multiplane visualization
- Volume rendering
- Views and layers group management



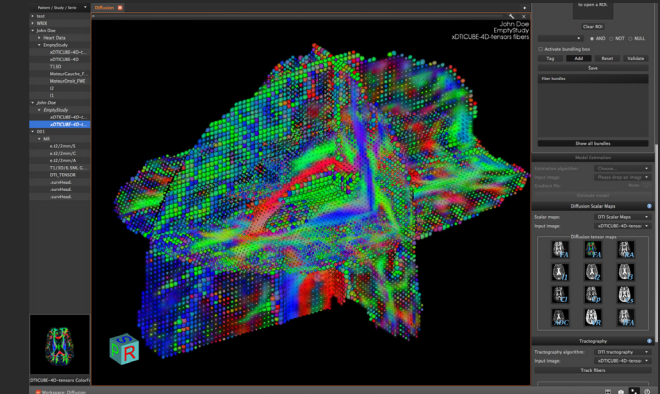
# Registration

- Linear and non-rigid registration
- Side-by-side registration evaluation
- Overlaid registration evaluation



- Composition of different registrations
- Undo-redo ability
- Standard registration algorithm API: Registration Programming Interface (RPI)

# Diffusion MRI



- Tensor estimation and visualization
- ODF visualization
- Automatic brain extraction from diffusion data
- Scalar maps extraction (MD, FA...)
- Full-brain fiber tracking
- Fiber interactive visualization and bundling
- ROI-based filtering

