

## Université Claude Bernard Lyon 1

Laboratoire d'Informatique Graphique, Image et Modélisation(LIGIM)

Université Claude Bernard Lyon 1  
43, Boulevard du 11 novembre 1918  
69622 Villeurbanne Cedex, France

☎ +33-4-72 44 83 09

☎ +33-4-72 44 83 64

✉ [ligim@bat710.univ-lyon1.fr](mailto:ligim@bat710.univ-lyon1.fr)

🌐 [www710.univ-lyon1.fr/ligim/](http://www710.univ-lyon1.fr/ligim/)

### Core Competence

Photorealistic Rendering, Global Illumination, Real-time Rendering, Implicit Surface Modeling, Animation, Metamorphosis, Motion Capture, Computer Vision, Product Modelling, Data Exchange, Data Integration, Cooperative Design



Head of the Institute  
Bernard Peroche

### History

Computer Graphics activities started at the beginning of the eighties initiated by Denis Vandorpe. The main activity of the laboratory was concerned by CAD-CAM and Image Synthesis. Lectures on computer graphics are given since 1980. About 3 PhD students complete their work every year.

### Staff

7 Full rank Professors  
14 Assistant professors  
2 Technicians  
2 Secretaries

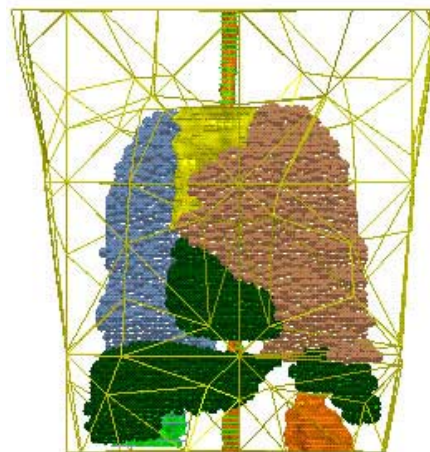
### Rooms and Locations

The Laboratory occupies some 800 square meters and is located in the second floor of the informatics department building.



### Financing

The rooms and other infrastructure are financed by the French government, EU-projects, French projects



### Current Structure and Important Partners

The structure of the laboratory makes up of three groups whose activities turn around graphics: Geometric modeling, Image Analysis and Technical Modeling

### Current Research

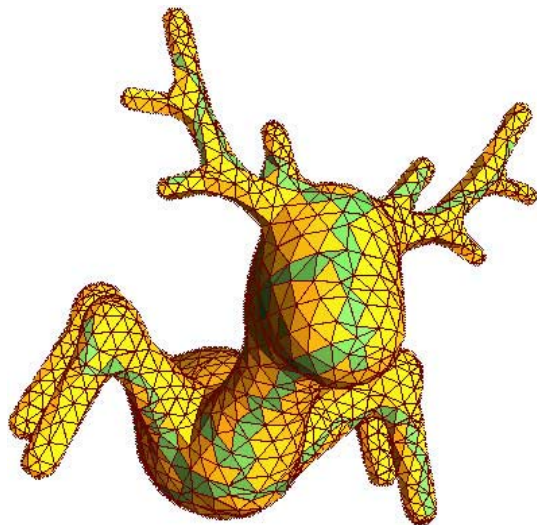
Modeling with implicit surfaces. Metamorphosis, animation and polygonysation of implicit models. 3D modeling and simulation for medical applications. Image segmentation, image compression. Photorealistic



Rendering, Global Illumination with light vectors and spectral rendering. Perceptually based rendering technics. Product data integration, cooperative design, form features product

**Important Recent Project Participations**

- "Semantic 3D": RNRT French National project
- "Dereve": Rhone-Alpes Project
- "ARROW","INFOCUS": BIOMED EU-project
- "ProDaec": EU-project for product data exchange thematic



**Important Recent Industrial Partners**

Infogrames (video games), Renault, TGS, Vision numerique, Elekta, Septen(EDF), CNIndustries, Tool, CSTB

**Future of the Lab**

The future research areas will develop towards virtual and augmented environments. The lab is in permanent search for collaboration with other EU labs in medical applications, Virtual Reality.

