Center for Mathematics and Computer Science CWI

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INS3 - Visualization and 3D user interfaces.
Department of Information Systems
Kruislaan 413
NL-1098 SJ Amsterdam
The Netherlands
☎ +31-20-592 4118
🖷 +31-20-592 4199
✉ robertl@cwi.nl
🌐 www.cwi.nl

Core Competence
Scientific Visualisation, Virtual Reality, 3D user interfaces

Head of the Group
Robert van Liere

History
Computer Graphics activities started in the late 70's initiated by Paul ten Hagen. About 20 PhD's have completed their work since then. From these activities the group on interactive scientific visualization and 3D user interfaces evolved. In 2000 the group organized the annual Eurographics workshops on visualization and virtual environments.

Staff
1 Head: Robert van Liere
2 Senior investigators: Jurriaan Mulder, Wim de Leeuw
5 Research assistants: Arjen van Rhijn, Jack Jansen, Oscar Reynhout, Bart Verheijen, one vacant.
*1 Technician*: Sander Hollaar
1 Secretary: Marja Hegt

Rooms and Locations
The group occupies one wing of the institute and is located in the CWI building. This includes three special labs for visualisation, and virtual reality research.

Financing
As institute of the Dutch organization for scientific research, CWI provides the basic staffing. All research assistants and some additional staff, as well as most special equipment are paid from projects fundings.
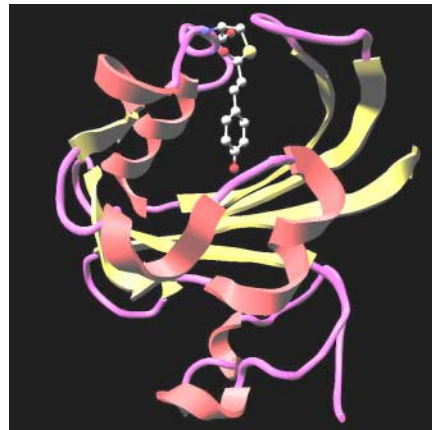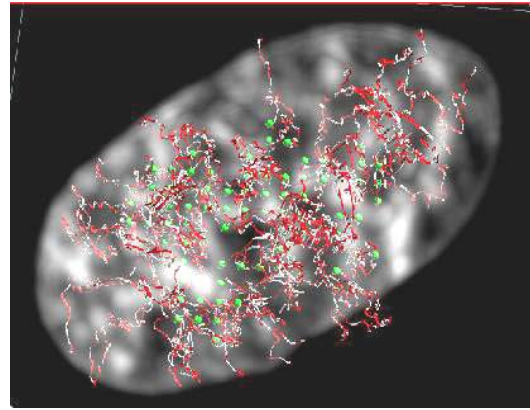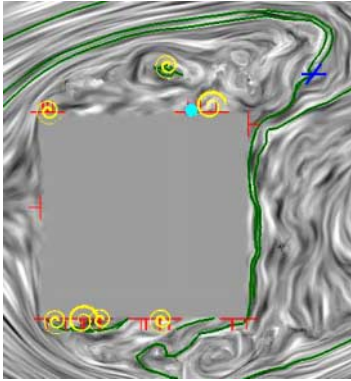
Current Structure and Important Partners
The group is organized in two areas: one for scientific visualiztion, and the other for 3D user interfaces. The group cooperates closely with Dutch national research groups in the bio-medical area.

Current Research
The primary research tracks are

data visualization and 3D user interfaces (virtual reality). The data visualization track focuses on projects in the application area of the Dutch ``living cell'' initiative. Interactive visualization of large data sets and the exploration of multidimensional information spaces is the track's the key research focus. The 3D user interfaces track focuses on projects concerned with applying virtual reality technology to cost effective and ergonomical desktop virtual environments. 3D visual and tangible interfaces are the key research focus.

Important Recent Project Participations

- "HPV project" - partners: CAP-GEMINI, RuGroningen, TNO
- "ICES-KIS2 project" - partners: UvAmsterdam
- "The Silicon Cell" - partners: VU, UvAmsterdam

Important Recent Industrial Partners
CAP-GEMINI, TNO, UvAmsterdam

Future of the Lab
The group will continue close cooperations with its partners in the bio-medical sector. The future research areas will focus on the development of improved the visualization techniques of time dependent data sets and enhanced interaction techniques for 3D interfaces.