



IMAGE PROCESSING EXPERTISE

NeST has over 60 man-years of experience in developing a wide range of image processing applications. This includes developments in the field of multimedia, pattern recognition and medical imaging.

NeST has got a team of experienced professionals with the relevant skills and expertise in this domain. The team is also well versed in performing compliance tests against various standards

TECHNOLOGY SKILL SET

Technology

- Real-time Movie Image Streaming using MPEG
- Biomedical Imaging
- Pattern Recognition
- 3-D Graphics
- Image Compression

Platforms/ Tools

Platforms

- Windows 95/98/NT
- Unix
- IRIX

Tools

- OpenGL
- Direct-X
- X-Windows
- Motif

PROJECT BRIEFS

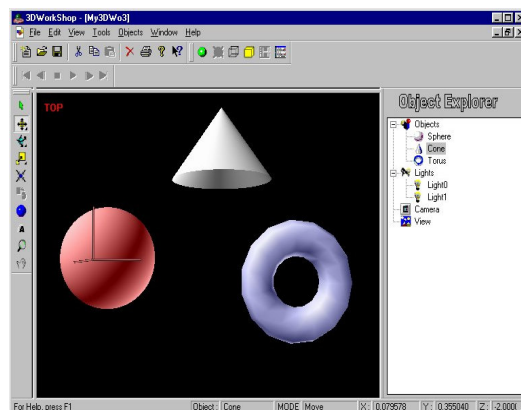
Raster to Vector Conversion

This project was to develop software to extract vector image from raster bitmaps. This was part of a Geographic Information System (GIS). The software uses algorithms for image enhancement, segmentation, edge detection and boundary extraction.

Haugh transform was customized for identification of certain basic geometric shapes.

3-D Graphics Workshop

This is a three-dimensional vector image editor. It provides a library of active 3D objects like Sphere, Cone, Cube, Pyramid and Surfaces. The software supports object level as well as image level operations like Texturing, Camera Positioning, Lighting, Shadowing, Transforming, Animating, Blending etc.



Genetic Algorithm for Intelligent Mesh

Modeling of solid surfaces is a very complex task requiring a prior knowledge of the stress and strain that would be acting on the various points along the surface. The finite element analysis method used to find the stress / strain

