Applications

Medical Imaging

ImageMatch™

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ImageMatch™ is a 3-D image processing library with primary application in medical imaging. ImageMatch provides 3D tools for image processing (thresholding, filters), but its most important features are designed to answer problems in image registration and fusion. For example ImageMatch offers the tools and the process to register and visualize images from different modalities, such as CT, MR, Digital X-Ray, PET, Ultrasound, and Nuclear Medicine. The technology offers numerous diagnostic applications in cardiology, oncology, and neurology. ImageMatch is available on all Silicon Graphics platforms.

IRIX version compatibility: 5.x, 6.x

MEDSTATION: A PACS Workstation with Integrated Case Tools

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The MEDStation is an integrated system and development platform for digital image processing and visualization of all kinds of digital images in medicine and biology. In addition to integrated turnkey applications (like PACS, therapy planning, and diagnosis workstations) the MEDStation allows for the rapid and inexpensive development of customer-tailored applications supported by its object-oriented design. Examples are 3D-Sonography, construction of implants like hip prostheses, virtual endoscopy, and therapy simulation. The system supports cooperative work (CSCW) which allows e.g. discussions and simultanious work on shared data by persons at different locationns. The MEDStation supports UNIX and Windows/NT.

IRIX version compatibility: 5.3, 6.2

Medical Research Workstation

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The Medical Research Workstation is a suite of programs that provide a 3-D medical imaging environment for researchers in magnetic imaging and computer tomography. The software has the following major components:

XFER - an image transfer program that move images from GE MRI and CT scanners to a workstation database.

CRDIDBM - a distributed image data manager that stores a variety of medical imaging formats.

MRX - an image display program and user interface to a variety of 3-D algorithms.

IRIX version compatibility: