

Resource Summary Report

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MITRE Neuroinformatics

RRID:SCR_006508

Type: Tool

Proper Citation

MITRE Neuroinformatics (RRID:SCR_006508)

Resource Information

URL: <http://www.mitre.org/news/digest/archives/2002/neuroinformatics.html>

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Description: This resource's long-term goal is to develop informatics methodologies and tools that will increase the creativity and productivity of neuroscience investigators, as they work together to use shared human brain mapping data to generate and test ideas far beyond those pursued by the data's originators. This resource currently has four major projects supporting this goal: * Database tools: The goal of the NeuroServ project is to provide neuroscience researchers with automated information management tools that reduce the effort required to manage, analyze, query, view, and share their imaging data. It currently manages both structural magnetic resonance image (MRI) datasets and diffusion tensor image (DTI) datasets. NeuroServ is fully web-enabled: data entry, query, processing, reporting, and administrative functions are performed by qualified users through a web browser. It can be used as a local laboratory repository, to share data on the web, or to support a large distributed consortium. NeuroServ is based on an industrial-quality query middleware engine MRALD. NeuroServ includes a specialized neuroimaging schema and over 40 custom Java Server Pages supporting data entry, query, and reporting to help manage and explore stored images. NeuroServ is written in Java for platform independence; it also utilizes several open source components * Data sharing: DataQuest is a collaborative forum to facilitate the sharing of neuroimaging data within the neuroscience community. By publishing summaries of existing datasets, DataQuest enables researchers to: # Discover what data is available for collaborative research # Advertise your data to other researchers for potential collaborations # Discover which researchers may have the data you need # Discover which researchers are interested in your data. * Image quality: The approach to assessing the inherent quality of an image is to measure how distorted the image is. Using what are referred to as no-reference or blind metrics, one can measure the degree to which an image is distorted. * Content-based image retrieval: NIRV (NeuroImagery Retrieval & Visualization) is a work environment for advanced querying over imagery. NIRV will have a Java-based front-end for users to issue queries, run processing algorithms, review results, visualize imagery and assess image quality. NIRV interacts with an image repository such as NeuroServ. Users can also

register images and will soon be able to filter searches based on image quality.

Abbreviations: MITRE Neuroinformatics

Synonyms: Neuroinformatics at MITRE, Neuroinformatics: Exploring the Human Brain

Resource Type: data analysis software, data distribution software, data processing software, data transfer software, data visualization software, simulation software, software application, software resource

Keywords: brain, data, diffusion tensor image, distorted, human, imagery, image, informatics, investigator, laboratory, magnetic resonance image, mapping, neuroscience, structural, visualization, neuroimaging

Funding: Human Brain Project ;
MITRE Technology Program ;
NSF ;
NIMH R01-MH64417

Resource Name: MITRE Neuroinformatics

Resource ID: SCR_006508

Alternate IDs: nif-0000-10469

Old URLs: <http://neuroinformatics.mitre.org/>

Record Creation Time: 20220129T080236+0000

Record Last Update: 20260912T195641+0000

Ratings and Alerts

No rating or validation information has been found for MITRE Neuroinformatics.

No alerts have been found for MITRE Neuroinformatics.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.