Resource Summary Report

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Neuroimage Analysis Center

RRID:SCR_008998
Type: Tool

Proper Citation

Neuroimage Analysis Center (RRID:SCR_008998)

Resource Information

URL: http://nac.spl.harvard.edu/

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Description: Biomedical Technology Resource Center that develops image processing and analysis techniques for basic and clinical neurosciences. The NAC research approach emphasizes both specific core technologies and collaborative application projects. The core activity of the center is the development of algorithms and techniques for postprocessing of imaging data. New segmentation techniques aid identification of brain structures and disease. Registration methods are used for relating image data to specific patient anatomy or one set of images to another. Visualization tools allow the display of complex anatomical and quantitative information. High-performance computing hardware and associated software techniques further accelerate algorithms and methods. Digital anatomy atlases are developed for the support of both interactive and algorithmic computational tools. Although the emphasis of the NAC is on the dissemination of concepts and techniques, specific elements of the core software technologies have been made available to outside researchers or the community at large. The NAC's core technologies serve the following major collaborative projects: Alzheimer's disease and the aging brain, morphometric measures in schizophrenia and schizotypal disorder, quantitative analysis of multiple sclerosis, and interactive image-based planning and guidance in neurosurgery. One or more NAC researchers have been designated as responsible for each of the core technologies and the collaborative projects.

Abbreviations: NAC

Synonyms: Neuroimaging Analysis Center

Resource Type: biomedical technology research center, training resource

Keywords: brain, neuroimaging, image processing, image analysis, postprocessing, segmentation, registration, algorithm, technique, brain structure, visualization, neurosurgery

Related Condition: Alzheimer's disease, Aging, Schizophrenia, Schizotypal disorder, Multiple Sclerosis, Neurosurgery

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NCRR P41 RR13218

Resource Name: Neuroimage Analysis Center

Resource ID: SCR_008998

Alternate IDs: nlx_152643

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Ratings and Alerts

No rating or validation information has been found for Neuroimage Analysis Center.

No alerts have been found for Neuroimage Analysis Center.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

da Silveira Souza B, et al. (2020) Detector of 3-D salient points based on the dual-tree complex wavelet transform for the positioning of hippocampi meshes in magnetic resonance images. Journal of neuroscience methods, 341, 108789.

Kaiyala KJ, et al. (2014) What does indirect calorimetry really tell us? Molecular metabolism, 3(4), 340.