

Resource Summary Report

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Hammer And WML Modules for 3D Slicer

RRID:SCR_005980

Type: Tool

Proper Citation

Hammer And WML Modules for 3D Slicer (RRID:SCR_005980)

Resource Information

URL: <http://www.unc.edu/~grwu/Software.html>

Proper Citation: Hammer And WML Modules for 3D Slicer (RRID:SCR_005980)

Description: A software plugin for 3D Slicer that matches morphological signatures of medical images automatically. HAMMER is an acronym for Hierarchical Attribute Matching Mechanism for Elastic Registration (Dinggang Shen, Christos Davatzikos, HAMMER: Hierarchical Attribute Matching Mechanism for Elastic Registration, IEEE Trans. on Medical Imaging, 21(11):1421-1439, Nov 2002) - an elastic registration algorithm for medical images, matching morphological signatures of images in a hierarchical multi-scale regime. White matter lesion (WML) segmentation is a novel multi-spectral WML segmentation protocol via incorporating information from T1-w, T2-w, PD-w and FLAIR MR brain images. (Zhiqiang Lao, Dinggang Shen, Dengfeng Liu, Abbas F Jawad, Elias R Melhem, Lenore J Launer, Nick R Bryan, Christos Davatzikos, Computer-Assisted Segmentation of White Matter Lesions in 3D MR images, Using Pattern Recognition, Academic Radiology, 15(3):300-313, March 2008).

Abbreviations: HAMMER, hammerwml

Synonyms: HAMMER: Hierarchical Attribute Matching Mechanism for Elastic Registration, Hierarchical Attribute Matching Mechanism for Elastic Registration and White matter lesion Modules for 3D Slicer

Resource Type: segmentation software, data processing software, image analysis software, software resource, registration software, software application

Defining Citation: [PMID:12575879](#), [PMID:18280928](#)

Keywords: mri, registration, white matter lesion, segmentation

Funding:

Availability: 3D Slicer License

Resource Name: Hammer And WML Modules for 3D Slicer

Resource ID: SCR_005980

Alternate IDs: nlx_151352

Alternate URLs: <http://www.nitrc.org/projects/hammerwml>

Record Creation Time: 20220129T080233+0000

Record Last Update: 20250412T055016+0000

Ratings and Alerts

No rating or validation information has been found for Hammer And WML Modules for 3D Slicer.

No alerts have been found for Hammer And WML Modules for 3D Slicer.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#).

Vrenken H, et al. (2013) Recommendations to improve imaging and analysis of brain lesion load and atrophy in longitudinal studies of multiple sclerosis. Journal of neurology, 260(10), 2458.