Resource Summary Report

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ValMap: simple statistical mapping tool

RRID:SCR_002610
Type: Tool

Proper Citation

ValMap: simple statistical mapping tool (RRID:SCR_002610)

Resource Information

URL: http://www.nitrc.org/projects/valmap/

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Description: A command line voxel-wise statistical analysis software program for images. Images can be gray matter density, jacobian images, etc. The linear model is implemented, i.e. designs that can be modeled as Y=AB, where Y is a vector or matrix of dependent variables, B is a vector or matrix of parameters to be estimated, and A is a design matrix. Why use valmap? # Do not need a Matlab license to run. # Can incorporate a spatially varying independent variable (e.g., you have a perfusion map as your dependent variable, and you want to co-vary for gray matter at each voxel, so use a gray matter map as an independent variable). # Can use spatially invariant independent variables (e.g., you can have a cognitive test score as the dependent variable, and use jacobian maps as the independent variable). # Can have multiple dependent variables and do multivariate analyses (e.g., want to know the overall effect of disease on perfusion and structure, so use perfusion maps and jacobian maps as dependent variables).

Abbreviations: ValMap

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

Keywords: analyze, c, c++, java, linear, linux, microsoft, morphology, magnetic resonance, nifti, posix/unix-like, quantification, regression, statistical operation, win32 (ms windows), windows, windows xp

Funding:

Availability: BSD License

Resource Name: ValMap: simple statistical mapping tool

Resource ID: SCR_002610

Alternate IDs: nlx_156013

Record Creation Time: 20220129T080214+0000

Record Last Update: 20250519T204457+0000

Ratings and Alerts

No rating or validation information has been found for ValMap: simple statistical mapping tool.

No alerts have been found for ValMap: simple statistical mapping tool.

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 NIF.

Naylor MG, et al. (2014) Voxelwise multivariate analysis of multimodality magnetic resonance imaging. Human brain mapping, 35(3), 831.

Cardenas VA, et al. (2013) Not lesser but Greater fractional anisotropy in adolescents with alcohol use disorders. NeuroImage. Clinical, 2, 804.