

Resource Summary Report

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imcalc: SPM batch image calculator

RRID:SCR_000868

Type: Tool

Proper Citation

imcalc: SPM batch image calculator (RRID:SCR_000868)

Resource Information

URL: <https://www.nitrc.org/projects/imcalc/>

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Description: A collection of functions with batch functionality for SPM: * user entered expression (one set of volumes); * binarize non-zero voxels; * binarize/threshold each image; * binarize non-zero voxels, sum, rebinarize; * voxelwise calculations on pairs (add sub mult div ... etc.); * flip sign of all non-zero voxels; * x-flip image along y = 0; * mask images to a template; * T-to-Z transform; * Winsorize (cap) extreme values; * Z-score transform of image relative to its global mean and SD; * write single voxels to a .nii; * create a cluster image; * split cluster image into constituent images; * write hemisphere masks from template; * homotopic calculations; * replace zeros with __; * pad image with extra voxels;

Abbreviations: imcalc

Synonyms: SPM batch image calculator, SPM batch image calculator (imcalc)

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

Keywords: magnetic resonance, statistical operation, batch functionality, spm

Availability: Free, Freely available

Resource Name: imcalc: SPM batch image calculator

Resource ID: SCR_000868

Alternate IDs: nlx_155854

License: GNU General Public License

Record Creation Time: 20220129T080204+0000

Ratings and Alerts

No rating or validation information has been found for imcalc: SPM batch image calculator.

No alerts have been found for imcalc: SPM batch image calculator.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Cordani L, et al. (2018) Endogenous modulation of human visual cortex activity improves perception at twilight. Nature communications, 9(1), 1274.

Bulut T, et al. (2017) Neural correlates of processing sentences and compound words in Chinese. PloS one, 12(12), e0188526.

Caminiti SP, et al. (2017) Axonal damage and loss of connectivity in nigrostriatal and mesolimbic dopamine pathways in early Parkinson's disease. NeuroImage. Clinical, 14, 734.

Floegel M, et al. (2017) Functional hemispheric asymmetries during the planning and manual control of virtual avatar movements. PloS one, 12(9), e0185152.

Kraguljac NV, et al. (2017) Ketamine modulates hippocampal neurochemistry and functional connectivity: a combined magnetic resonance spectroscopy and resting-state fMRI study in healthy volunteers. Molecular psychiatry, 22(4), 562.

Wang S, et al. (2017) Aberrant patterns of brain cerebral blood flow in Chinese han first-episode drug-naïve depressive patients with and without a family history of depression. Oncotarget, 8(45), 79906.

Witt ST, et al. (2016) Increased fMRI Sensitivity at Equal Data Burden Using Averaged Shifted Echo Acquisition. Frontiers in neuroscience, 10, 544.

Chen G, et al. (2016) Pseudo-continuous arterial spin labeling imaging of cerebral blood perfusion asymmetry in drug-naïve patients with first-episode major depression. Biomedical reports, 5(6), 675.

Banca P, et al. (2016) Reflection impulsivity in binge drinking: behavioural and volumetric correlates. Addiction biology, 21(2), 504.

Li L, et al. (2016) White Matter Abnormalities in Post-traumatic Stress Disorder Following a Specific Traumatic Event. *EBioMedicine*, 4, 176.

Månsson KN, et al. (2016) Neuroplasticity in response to cognitive behavior therapy for social anxiety disorder. *Translational psychiatry*, 6(2), e727.

Glahn A, et al. (2015) Obsessive-compulsive disorder is a heterogeneous disorder: evidence from diffusion tensor imaging and magnetization transfer imaging. *BMC psychiatry*, 15, 135.

Matías-Guiu JA, et al. (2015) Amyloid PET imaging in multiple sclerosis: an (18)F-florbetaben study. *BMC neurology*, 15, 243.

Belatis MJ, et al. (2014) Hybrid graphene-metal oxide solution processed electron transport layers for large area high-performance organic photovoltaics. *Advanced materials (Deerfield Beach, Fla.)*, 26(13), 2078.

Tong H, et al. (2013) Peptide-conjugation induced conformational changes in human IgG1 observed by optimized negative-staining and individual-particle electron tomography. *Scientific reports*, 3, 1089.