

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, software toolkit, software resource, image analysis software, software application

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 [NIF](#) .

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.