

Resource Summary Report

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iso2mesh

RRID:SCR_013202

Type: Tool

Proper Citation

iso2mesh (RRID:SCR_013202)

Resource Information

URL: <http://iso2mesh.sourceforge.net/>

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Description: A Matlab / Octave-based mesh generation toolbox designed for easy creation of high quality surface and tetrahedral meshes from 3D volumetric images. It contains a rich set of mesh processing scripts/programs, functioning independently or interfacing with external free meshing utilities. Iso2mesh toolbox can operate directly on 3D binary, segmented or gray-scale images, such as those from MRI or CT scans, making it particularly suitable for multi-modality medical imaging data analysis or multi-physics modeling.

Abbreviations: iso2mesh

Resource Type: software toolkit, software resource, software application

Keywords: matlab, mesh generation, modeling, magnetic resonance, optical imaging, os independent, mri, computed tomography, octave

Availability: GNU General Public License

Resource Name: iso2mesh

Resource ID: SCR_013202

Alternate IDs: nlx_155855

Alternate URLs: <http://www.nitrc.org/projects/iso2mesh>

Record Creation Time: 20220129T080314+0000

Record Last Update: 20260804T043511+0000

Ratings and Alerts

No rating or validation information has been found for iso2mesh.

No alerts have been found for iso2mesh.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 25 mentions in open access literature.

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

McCann A, et al. (2025) Creating anatomically derived, standardized, customizable, and three-dimensional printable head caps for functional neuroimaging. *Neurophotonics*, 12(1), 015016.

Raiola M, et al. (2025) A method for analysing tissue motion and deformation during mammalian organogenesis. *PLoS computational biology*, 21(10), e1013275.

Khan AF, et al. (2022) Transient brain-wide coactivations and structured transitions revealed in hemodynamic imaging data. *NeuroImage*, 260, 119460.

Babo-Rebelo M, et al. (2022) Visual Information Routes in the Posterior Dorsal and Ventral Face Network Studied with Intracranial Neurophysiology and White Matter Tract Endpoints. *Cerebral cortex (New York, N.Y. : 1991)*, 32(2), 342.

Collins-Jones LH, et al. (2021) Longitudinal infant fNIRS channel-space analyses are robust to variability parameters at the group-level: An image reconstruction investigation. *NeuroImage*, 237, 118068.

Sammur S, et al. (2021) Compensation Strategies for Bioelectric Signal Changes in Chronic Selective Nerve Cuff Recordings: A Simulation Study. *Sensors (Basel, Switzerland)*, 21(2).

Frijia EM, et al. (2021) Functional imaging of the developing brain with wearable high-density diffuse optical tomography: A new benchmark for infant neuroimaging outside the scanner environment. *NeuroImage*, 225, 117490.

Muthuraman M, et al. (2021) Frequency-specific network activity predicts bradykinesia severity in Parkinson's disease. *NeuroImage. Clinical*, 32, 102857.

Hatlestad-Hall C, et al. (2021) The organization of functional neurocognitive networks in focal epilepsy correlates with domain-specific cognitive performance. *Journal of neuroscience research*, 99(10), 2669.

Koponen LM, et al. (2020) Individual head models for estimating the TMS-induced electric field in rat brain. *Scientific reports*, 10(1), 17397.

Muthuraman M, et al. (2020) Cross-frequency coupling between gamma oscillations and deep brain stimulation frequency in Parkinson's disease. *Brain : a journal of neurology*, 143(11), 3393.

Ruffini G, et al. (2020) Realistic modeling of mesoscopic ephaptic coupling in the human brain. *PLoS computational biology*, 16(6), e1007923.

Rezaee Z, et al. (2020) Deep Cerebellar Transcranial Direct Current Stimulation of the Dentate Nucleus to Facilitate Standing Balance in Chronic Stroke Survivors-A Pilot Study. *Brain sciences*, 10(2).

Lee H, et al. (2019) Development of wirelessly-powered, extracranial brain activator (ECBA) in a large animal model for the future non-invasive human neuromodulation. *Scientific reports*, 9(1), 10906.

Sprugnoli G, et al. (2019) Reduction of intratumoral brain perfusion by noninvasive transcranial electrical stimulation. *Science advances*, 5(8), eaau9309.

Zimeo Morais GA, et al. (2018) fNIRS Optodes' Location Decider (fOLD): a toolbox for probe arrangement guided by brain regions-of-interest. *Scientific reports*, 8(1), 3341.

Brigadoi S, et al. (2018) Array Designer: automated optimized array design for functional near-infrared spectroscopy. *Neurophotonics*, 5(3), 035010.

Fischer DB, et al. (2017) Multifocal tDCS targeting the resting state motor network increases cortical excitability beyond traditional tDCS targeting unilateral motor cortex. *NeuroImage*, 157, 34.

Blenkmann AO, et al. (2017) iElectrodes: A Comprehensive Open-Source Toolbox for Depth and Subdural Grid Electrode Localization. *Frontiers in neuroinformatics*, 11, 14.

Gustafsson A, et al. (2016) Strains caused by daily loading might be responsible for delayed healing of an incomplete atypical femoral fracture. *Bone*, 88, 125.