Resource Summary Report

Generated by SPARC SAWG on Sep 14, 2026

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 application, software resource, software toolkit

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: 20260912T200248+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 28 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Vaughan QM, et al. (2026) Small bone replacement leads to greater gait asymmetry, cartilage damage, and osteophyte formation than ligament injury in a porcine wrist model. Osteoarthritis and cartilage open, 8(3), 100824.

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

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

Treu S, et al. (2023) Deep-brain stimulation of the human nucleus accumbens-medial septum enhances memory formation. Research square.

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.

Karako?? A, et al. (2022) Microstructural evaluation and recommendations for face masks in community use to reduce the transmission of respiratory infectious diseases. Computer methods and programs in biomedicine, 226, 107154.

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

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.

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.

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

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.

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.