

Resource Summary Report

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GMSH

RRID:SCR_021226

Type: Tool

Proper Citation

GMSH (RRID:SCR_021226)

Resource Information

URL: <https://gmsh.info/>

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Description: Open source software tool as 3D finite element grid generator with build in CAD engine and post processor. Provides meshing tool with parametric input and advanced visualization capabilities. Built around geometry, mesh, solver and post processing modules. Specification of any input to these modules is done either interactively using graphical user interface, in ASCII text files using Gmsh own scripting language (.geo files), or using C plus plus, C, Python or Julia Application Programming Interface.

Resource Type: software resource

Keywords: 3D finite element grid generator, CAD engine build in, post processor, meshing tool

Availability: Free, Available for download, Freely available

Resource Name: GMSH

Resource ID: SCR_021226

Alternate URLs: <https://gitlab.onelab.info/gmsh/gmsh>

License: GNU General Public License

Record Creation Time: 20220129T080354+0000

Record Last Update: 20260808T190203+0000

Ratings and Alerts

No rating or validation information has been found for GMSH.

No alerts have been found for GMSH.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 27 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Fernandes SR, et al. (2026) Modeling strategies in non-invasive spinal stimulation: perspectives on state-of-the-art. *Frontiers in human neuroscience*, 20, 1763470.

Lee AWC, et al. (2026) Computational analysis of intracardiac collision risk and optimal site for right ventricular leadless left bundle branch area pacing: A simulation study. *Heart rhythm O2*, 7(5), 947.

Yang K, et al. (2026) Numerical simulation of hydraulic-natural fracture interaction based on the continuous-discontinuous element method. *Scientific reports*, 16(1), 4421.

Youssef H, et al. (2026) Hippocampal subfield thickness and shape analysis in examining the impact of TDP-43 in primary age-related tauopathy. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 22(3), e71267.

Pons MI, et al. (2025) Cardiomyopathy and thrombogenesis in cats through left atrial morphological and fluid dynamics analysis. *Scientific reports*, 15(1), 12263.

Hendriks F, et al. (2025) Wallpaper Group-Based Mechanical Metamaterials: Dataset Including Mechanical Responses. *Scientific data*, 12(1), 1880.

Musy SL, et al. (2025) Modeling a geologically complex volcanic watershed for integrated water resources management in Mt. Fuji, Japan. *Scientific data*, 13(1), 69.

Albors C, et al. (2024) Impact of occluder device configurations in in-silico left atrial hemodynamics for the analysis of device-related thrombus. *PLoS computational biology*, 20(9), e1011546.

Michel S, et al. (2023) Spectral Analysis of High Order Continuous FEM for Hyperbolic PDEs on Triangular Meshes: Influence of Approximation, Stabilization, and Time-Stepping. *Journal of scientific computing*, 94(3), 49.

Pang JC, et al. (2023) Geometric constraints on human brain function. *Nature*, 618(7965), 566.

Chen JF, et al. (2023) An Optimized Schwarz Method for the Optical Response Model Discretized by HDG Method. *Entropy (Basel, Switzerland)*, 25(4).

Arnstein T, et al. (2023) Methodology to Investigate Effect of Prosthetic Interface Design on Residual Limb Soft Tissue Deformation. *Canadian prosthetics & orthotics journal*, 6(1),

42196.

Zwick BF, et al. (2023) Image data and computational grids for computing brain shift and solving the electrocorticography forward problem. *Data in brief*, 48, 109122.

Abdellah M, et al. (2023) Ultraliser: a framework for creating multiscale, high-fidelity and geometrically realistic 3D models for in silico neuroscience. *Briefings in bioinformatics*, 24(1).

Lu H, et al. (2023) Pinpointing the precise stimulation targets for brain rehabilitation in early-stage Parkinson's disease. *BMC neuroscience*, 24(1), 24.

Rivas Loya R, et al. (2022) Computer 3D modeling of radiofrequency ablation of atypical cartilaginous tumours in long bones using finite element methods and real patient anatomy. *European radiology experimental*, 6(1), 21.

Fleischer M, et al. (2022) Voice efficiency for different voice qualities combining experimentally derived sound signals and numerical modeling of the vocal tract. *Frontiers in physiology*, 13, 1081622.

Mohammad Mirzaei N, et al. (2022) A PDE Model of Breast Tumor Progression in MMTV-PyMT Mice. *Journal of personalized medicine*, 12(5).

Kummer T, et al. (2022) Embedded Computational Heart Model for External Ventricular Assist Device Investigations. *Cardiovascular engineering and technology*, 13(5), 764.

Chahine Y, et al. (2022) Epicardial adipose tissue is associated with left atrial volume and fibrosis in patients with atrial fibrillation. *Frontiers in cardiovascular medicine*, 9, 1045730.