

Resource Summary Report

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MeshValmet: Validation Metric for Meshes

RRID:SCR_006622

Type: Tool

Proper Citation

MeshValmet: Validation Metric for Meshes (RRID:SCR_006622)

Resource Information

URL: <http://www.softpedia.com/get/Science-CAD/MeshValmet.shtml>

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Description: A tool that measures surface to surface distance between two triangle meshes using user-specified uniform sampling. Thus, users can choose finer sampling level to calculate errors to gain more accuracy in the error space, or sparser sampling to gain speed and get an approximate feeling of error distribution between boundaries. Besides its pleasant visualization using the VTK library, MeshValmet also provides useful histogram and statistical information based on the sample errors, such as mean and median distance, root mean square distance, mean square distance, mean absolute distance, Hausdorff distance, 95 percentile, 68 percentile, etc. MeshValmet is based on the work of Nicolas Aspert, etc.: MESH: Measuring Errors between Surfaces using the Hausdorff distance in the proceedings of the IEEE Int. Conf. on Multimedia and Expo 2002 (ICME), vol. I, pp. 705-708. The calculation of the Dice's Coefficient is calculated by Joshua Stough using the concept of a Riemannian sum.

Abbreviations: MeshValmet

Resource Type: data processing software, software resource, software application

Keywords: magnetic resonance

Funding:

Availability: GNU General Public License

Resource Name: MeshValmet: Validation Metric for Meshes

Resource ID: SCR_006622

Alternate IDs: nlx_155811

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

Record Creation Time: 20220129T080237+0000

Record Last Update: 20250503T055833+0000

Ratings and Alerts

No rating or validation information has been found for MeshValmet: Validation Metric for Meshes.

No alerts have been found for MeshValmet: Validation Metric for Meshes.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.