

# 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:** software application, software resource, data processing software

**Keywords:** magnetic resonance

**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:** 20260727T040418+0000

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## 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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.