Resource Summary Report

Generated by NIF on May 24, 2025

ShapeWorks

RRID:SCR_000424
Type: Tool

Proper Citation

ShapeWorks (RRID:SCR_000424)

Resource Information

URL: http://www.sci.utah.edu/cibc/software/131-shapeworks.html

Proper Citation: ShapeWorks (RRID:SCR_000424)

Description: THIS RESOURCE IS NO LONGER IN SERVICE.Documented on September 2, 2022. Software that is an open-source distribution of a new method for constructing compact statistical point-based models of ensembles of similar shapes that does not rely on any specific surface parameterization. The method requires very little preprocessing or parameter tuning, and is applicable to a wide range of shape analysis problems, including nonmanifold surfaces and objects of arbitrary topology. The proposed correspondence point optimization uses an entropy-based minimization that balances the simplicity of the model (compactness) with the accuracy of the surface representations. The ShapeWorks software includes tools for preprocessing data, computing point-based shape models, and visualizing the results.

Abbreviations: ShapeWorks

Resource Type: software application, software resource

Keywords: c++, console (text based), linux, macos, microsoft, magnetic resonance, posix/unix-like, rendering, shape analysis, surface rendering, visualization, win32 (ms windows), windows, workflow

Funding: NCRR 5P41RR012553-15;
NIGMS 8 P41 GM103545-15

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: ShapeWorks

Resource ID: SCR_000424

Alternate IDs: nlx_155961

Alternate URLs: http://www.nitrc.org/projects/shapeworks

License: MIT License, X Consortium License

Record Creation Time: 20220129T080201+0000

Record Last Update: 20250522T055850+0000

Ratings and Alerts

No rating or validation information has been found for ShapeWorks.

No alerts have been found for ShapeWorks.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Bolsterlee B, et al. (2022) A new framework for analysis of three-dimensional shape and architecture of human skeletal muscles from in vivo imaging data. Journal of applied physiology (Bethesda, Md. : 1985), 132(3), 712.