Resource Summary Report

Generated by dkNET on Apr 19, 2025

shapeAnalysisMANCOVA - SPHARM tools

RRID:SCR_002578
Type: Tool

Proper Citation

shapeAnalysisMANCOVA - SPHARM tools (RRID:SCR_002578)

Resource Information

URL: http://www.nitrc.org/projects/shape_mancova/

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Description: shapeAnalysisMANCOVA offers statistical shape analysis based on a parametric boundary description (SPHARM) as the point-based model computing method. The point-based models will be analyzed with the methods here proposed using multivariate analysis of covariance (MANCOVA). Here, the number of variates being tested is the dimensionality of our observations. Each point of these observations is a three dimensional displacement vector from the mean. The number of contrasts is the number of equations involved in the null-hypothesis. In order to encompass varying numbers of variates and contrasts, and to account for independent variables, a matrix computation is performed. This matrix represents the multidimensional aspects of the correlation significance and it can be transformed into a scalar measure by manipulation of its eigenvalues. Details of the methods can be found in its Insight Journal publication: http://hdl.handle.net/10380/3124

Abbreviations: shapeAnalysisMANCOVA

Resource Type: software resource, software application

Keywords: c++, console (text based), macos, magnetic resonance, posix/unix-like, shape analysis, shape decomposition, spherical harmonics, statistical operation, surface analysis

Funding:

Availability: 3D Slicer License

Resource Name: shapeAnalysisMANCOVA - SPHARM tools

Resource ID: SCR_002578

Alternate IDs: nlx_155980

Record Creation Time: 20220129T080214+0000

Record Last Update: 20250416T063303+0000

Ratings and Alerts

No rating or validation information has been found for shapeAnalysisMANCOVA - SPHARM tools.

No alerts have been found for shapeAnalysisMANCOVA - SPHARM tools.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.