

Automated Geometric Representation of Discrete Point Sets

Published date: April 18, 2019

Technology description

Inventors at USF have developed a novel method of developing smooth analytical geometric representations based on discrete point sets. The benefit of this invention is the reduction of time required to convert a set of discrete points from an imaging system, such as MRI or CT scans, into geometric representations that can be used for analysis. Along with aiding in the geometric modeling of discrete point sets; the current invention simplifies and reduces the time to perform a detailed analysis on an object. This novel method has a wide range of applications in the field of medical imaging, nanotechnology and traditional computer aided design.

Researchers at the University of South Florida have developed a novel method of developing smooth analytical representations of geometries based on discrete point sets.

Institution

[University of South Florida](#)

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