

Fractal Scanning Path Planning Control And Application Chinese Edition

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## Summary:

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Fractal scanning path generation and control system for ... A fractal scanning path which is a FASS (space-filling, self-avoiding, simple and self-similar) curve is proposed for selective laser sintering (SLS). Research on fractal-scanning path for arbitrary boundary ... The fractal curve is proposed as a novel scanning-path used in Layered Manufacturing. Aiming at a limitation that the fractal curve can only fill a square region, a method is developed to realize the trimming of fractal curve in arbitrary boundary layer by means of judging intersection points. Fractal scanning path generation and control system for ... First, from the initial node, the fractal path is traversed, while the first intersection point is encountered, the scanning beam enters the boundary "walking" along the fractal curve, until the second intersection point is reached.

Fractal scanning path generation and control ... - DeepDyve A fractal scanning path which is a FASS (space-filling, self-avoiding, simple and self-similar) curve is proposed for selective laser sintering (SLS). The authors' preliminary research has proved that the samples which are produced by SLS along a fractal scanning path possess improved physical performance. Fractal Scanning Path Planning Control And Application ... Fractal Scanning Path Planning Control And Application Chinese Edition ePub. Download Fractal Scanning Path Planning Control And Application Chinese Edition in EPUB Format In the website you will find a large variety of ePub, PDF, Kindle, AudioBook, and books. Fractal scanning path planning. control. and application ... Pub Date: 2006 Pages: 143 in Publisher: Huazhong University of Science and Technology Publishing House fractal scanning path planning. control. application summarizes the fractal scanning of its guidance of four doctoral students in research planning. control and in the application of selective laser sintering (SLS) are made of the results.

Fractal scan strategies for selective laser melting of ... However, application of a fractal scan pattern, as a single, continuous path that covers a wide area, can potentially provide a more uniform temperature distribution compared to the cyclic heat input that is associated with unidirectional, straight line raster fill scans. Hilbert Curve Fractal Stacking in the Application of Path ... The scanning process of fused deposition modeling is realizing the fill of certain region, Therefore, reasonable scanning path planning directly affects the forming efficiency and the precision of the work piece. The method of Hilbert curve fractal scanning path which basing on the characteristics of both partition and parallel scanning is put forward basing on the analysis of the existing. Automated Torch Path Planning Using Polygon Subdivision ... Automated Torch Path Planning Using Polygon Subdivision for Solid Freeform Fabrication ... curve for scan path generation (Venkataramani, Das, and Beaman 1998; Ganesan and Fadel 1994) and ... Yang et al. (2002) is based on a fractal scanning path for laser sintering. This technique allows space fill- ing, self-avoiding, and self-similar.

Kurian Antony, Senthilkumaran Kumaraguru\* and Dhana Govind ... fractal path scanning is proposed to fill the area inside the contour and its effect on part quality needs to be studied in detail (Ma and Bin, 2007). The effect of neighbourhood scan path.