

Fractal Scanning Path Planning Control And Application Chinese Edition

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). The authors' preliminary research has proved that the samples which are produced by SLS along a fractal scanning path possess improved physical performance. 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 ... A fractal scanning path which is a FASS (space-filling, self-avoiding, simple and self-similar) curve is proposed for selective laser sintering (SLS).

Fractal scanning path generation and control system for ... International Journal of Machine Tools & Manufacture 43 (2003) 293-300 Fractal scanning path generation and control system for selective laser sintering (SLS) J. Yang. 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. 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.

Research on Fractal-Scanning Path for Arbitrary Boundary ... ment the SLS process in "S" scanning path and fractal- scanning path. The materials to be sintered consist of the mixture of resin and sand powders. The experimental results show that under the same sintering efficiency, compared with the "S" scanning path, the. 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. Perfect patterns pave path to faster, cheaper MRI - phys.org Dr Shekhar Chandra from UQ's School of Information Technology and Electrical Engineering has identified a new class of fractals, a mathematical pattern that could boost the MRI scanning process.

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 ... path may accumulate tremendous heat in the process of SFF based on welding and hence may lead to deformation of the part. A method suggested by Yang et al. (2002) is based on a fractal scanning path for laser sintering. This technique allows space filling, self-avoiding, and self-similar scanning. The. Optimal Scanning of Gaussian and Fractal Brownian Images ... the adjacent sets of pixels. The second method deals with choice of scan direction by criterion of scalar product maximum of chosen vector and previous one. An estimator of correlation dimension is evaluated. Keywords: optimal scanning, correlation dimension, maximum likelihood estimator, fractal analysis, Gaussian and Fractal Brownian images.

On Relationships Between Fixation Identification ... Wavelets and fractals; Keywords: Scan path comparison, Characterization and analysis, Pupil dynamics, Scanning strategies 1 Introduction Many natural phenomena exhibit fractal or self-similar properties. For example, in one of the earliest reports regarding the self-similarity of natural phenomena, Mandelbrot [1967] showed that. 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. A jointly optimal fractal/DCT compression scheme ... Differential encoding of the DC coefficient is employed, with the scanning path based on a 3rd-order Hilbert curve. Simulation results show a significant improvement in quality with respect to the JPEG standard, an approach based on optimization of DCT basis vectors, as well as, the purely fractal techniques.