



Automatic Reconstruction of Triangular Meshes from Point Sets

By Jiju Peethambaran

LAP Lambert Academic Publishing Apr 2016, 2016. Taschenbuch. Book Condition: Neu. 220x150x10 mm. This item is printed on demand - Print on Demand Neuware - 'Constructing polygons or polyhedra with well-defined properties from a set of general points has been an active area of research since the inception of computational geometry. Some examples include convex hull, shape characterizing polygons, bounding boxes, convex and non-convex k-gons, k-holes, optimal area and perimeter polygonizations. This book delineates algorithms, theory and the experimental results on constructing constrained triangular meshes from point clouds. In particular, two geometric reconstruction problems have been covered. 1. Shape reconstruction and 2. Polygonization with optimal area. Both these problems have been discussed in three dimensions, where one of the problems focuses on reconstructing closed watertight surfaces from three dimensional point sets and the other, addresses the polyhedronization of point sets with volume constraint. Discussed problems are relevant with numerous applications in computer graphics, computer vision, pattern recognition, geographical information science (GIS), 4D printing and surface lofting, among others.' 160 pp. Englisch.



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