



The Furthest-Site Geodesic Voronoi Diagram (Classic Reprint) (Paperback)

By Boris Aronov

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from The Furthest-Site Geodesic Voronoi Diagram A common goal of much recent research in computational geometry is to extend algorithms that have been developed for the Euclidean metric to the more complicated geodesic metric inside a simple polygon. The geodesic distance between two points in a simple polygon is the length of the shortest path connecting the points that remains inside the polygon. For example, Toussaint [T86] gives an algorithm for the relative convex hull of a set of points inside a simple polygon; Aronov [A87] gives an algorithm for the nearest-neighbor geodesic Voronoi diagram; and Pollack, Sharir and Rote [PSR87] give an algorithm for the geodesic center of a simple polygon. A classic structure in the Euclidean metric is the furthest-site Voronoi diagram. Given a finite collection of point sites in the plane, the furthest-site Voronoi diagram partitions the plane into Voronoi cells, one cell per site. The site that owns a cell is the site that is furthest from every point in the cell. Using well-known algorithms, the Euclidean furthest-site Voronoi diagram of k...



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