



## Robotics Research Technical Report: Computing the Link Center of a Simple Polygon (Classic Reprint) (Paperback)

By W Lenhart

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Robotics Research Technical Report: Computing the Link Center of a Simple Polygon The link center of a simple polygon  $P$  is the set of points  $x$  inside  $P$  at which the maximal link-distance from  $x$  to any other point in  $P$  is minimized. Here the link distance between two points  $x, y$  inside  $P$  is defined to be the smallest number of straight edges in a polygonal path inside  $P$  connecting  $x$  to  $y$ . We also give an  $O(n \log n)$  algorithm for finding a point  $x$  in an approximate link center, namely the maximal link distance from  $x$  to any point in  $P$  is at most one more than the value attained from the link center. This paper concerns itself with analysis and calculation of the link center of a simple planar polygon  $P$  having  $n$  sides. The notion of a link distance between two points  $x, y$  inside  $P$  has been recently introduced in [Sul]; it is defined as the smallest number of links (i.e. straight segments) in a polygonal path connecting  $x$ ...



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