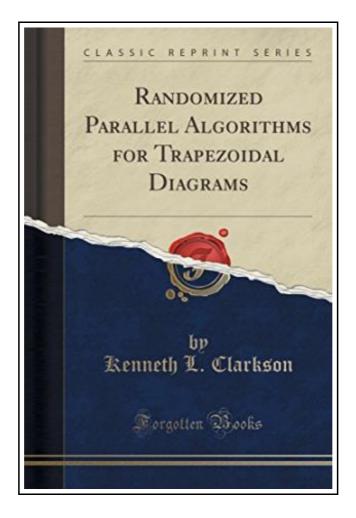
Randomized Parallel Algorithms for Trapezoidal Diagrams (Classic Reprint) (Paperback)



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Reviews

This publication may be really worth a go through, and a lot better than other. It really is full of knowledge and wisdom Its been printed in an exceptionally easy way in fact it is simply after i finished reading this publication by which basically modified me, affect the way i really believe. (Troy Dietrich DDS)

RANDOMIZED PARALLEL ALGORITHMS FOR TRAPEZOIDAL DIAGRAMS (CLASSIC REPRINT) (PAPERBACK)



Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Randomized Parallel Algorithms for Trapezoidal Diagrams We describe randomized parallel Crew Pram algorithms for building trapezoidal diagrams of line segments in the plane. For general segments, we give an algorithm requiring optimal O(A + n log n) expected work and optimal O(log n) time, where A is the number intersecting pairs of segments. If the segments form a simple chain, we give an algorithm requiring optimal O(n) expected work and O(log n log log n log* n) expected time, and a simpler algorithm requiring O(n log* n) expected operations. For a set of segments forming K chains, we give an algorithm requiring O(A + n log* n + K log n) expected work and O(log n log log n log* n) expected time. The parallel time bounds require the assumption that enough processors are available, with processor allocations every log n steps. 1. Introduction 1.1 Results and related work We give several algorithms for building trapezoidal diagrams of line segments in the plane. These algorithms reach or approach optimality with respect to three parameters: the number n of segments, the number A of crossing pairs of segments, and the number K of chains. Here a chain is a sequence of segments such that a segment meets its successor in the sequence at an endpoint, and no endpoint is common to more than two segments. Specific values of these parameters correspond to problems in computational geometry that have been extensively studied. We consider these cases, as well as the general case, in the context of randomized parallel algorithms in the Crew Pram model. Given a set S of n line segments, the trapezoidal diagram T(S) is...

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