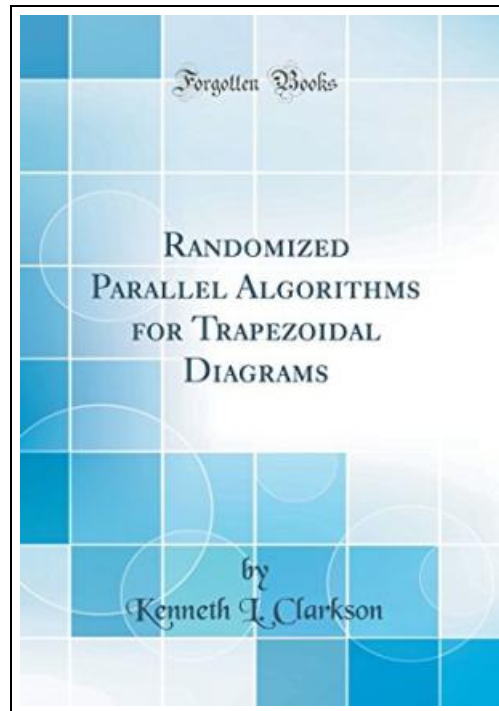


Randomized Parallel Algorithms for Trapezoidal Diagrams (Classic Reprint) (Hardback)



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Reviews

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(Wellington Rosenbaum)

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Forgotten Books, 2018. Hardback. Condition: New. 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 $O(A \lceil n \log n \rceil)$ 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 a collection of simple regions defined as...



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