



## Simd Algorithms for D Arrays in Shuffle Networks (Classic Reprint) (Paperback)

By Yosi Ben-Asher

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Simd Algorithms for D Arrays in Shuffle Networks 1. Introduction and the Model Schwartz [1] introduced the idea of a parallel processor based on the shuffle connections (2); reviewed various bask of SIMD algorithms for such an ensemble of processors, and analyzed their asymptotk time complexities. However, these algorithms arc designed for the 1-D ease, where  $iV$ , the size of the problem is restricted to be  $P$ , the number of processors. In reality. the general ease where  $N>P$  is much more likely to appear. In this cast each processor stores  $L = S/P$  data elements in its local memory. This data structure is referred to as a 2-D array of  $P$  columns and  $L$  rows, where the Tih column corresponds to the local memory of the processor PE/. Our algorithms correspond to a SIMD Perfect Shuffle connected machine (PS) [1]. Fo: simplicity, although it is not crucial, we assume that  $P$  is a power of two. The processors arc ordered left to right and arc numbered 0 -  $P-1$  accordingly, so we denote the; th...



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