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Abstract. We develop parallel algorithms for both one-dimensional and two-dimensional versions of the maximum sum problem (or max sum for short) on several interconnection networks. These algorithms are all based on a simple scheme that uses prefix sums. To this end, we first show how to compute prefix sums of N elements on a hypercube, a star,...

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Selim G. Akl (Ph.D. McGill, 1978) - Queen's University

Selim G. Akl is the author of The Design and Analysis of Parallel Algorithms (3.90 avg rating, 10 ratings, 1 review, published 1989), Parallel Sorting Al...

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An understanding of the role of parallel algorithms and the technical knowledge for designing and analyzing them are essential to anyone entering the field of parallel computation. Familiarity with the models associated with the algorithms is also essential. Thus, focusing on "models and methods," author Selim G. Akl presents the following areas of parallel computation: an overview of the ...

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Dr. Selim Akl, Professor in the School of Computing at Queen's University, is a worldwide expert in the fields of parallel computing and algorithm design. His 40+ years of research have focused on design and analysis of efficient solutions to computational problems with enormous processing time requirements.

The Design and Analysis of Parallel Algorithms Selim G. Akl Queen's U niversity Kingston, Ontario, Canada Prentice Hall, Englewood Cliffs, New Jersey 07632

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Selim G. Akl (Author of The Design and Analysis of ...

Selim G. Akl , Ivan Stojmenovic, Generating t-ary trees in parallel, Nordic Journal of Computing, v.3 n.1, p.63-71, Spring 1996 L. I. Kontothanassis , M. L. Scott, Software cache coherence for large scale multiprocessors, Proceedings of the 1st IEEE Symposium on High-Performance Computer Architecture, p.286, January 22-25, 1995

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