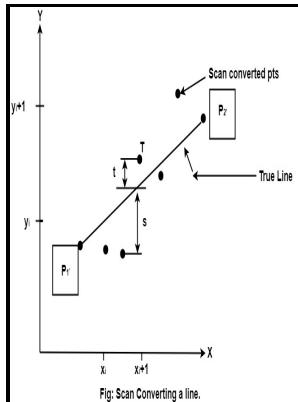


# Parallel algorithm derivation and program transformation

**Kluwer Academic - From transformations to methodology in parallel program development: A case study**



Description: -

- Parallel algorithms

Parallel programming (Computer science) Parallel algorithm derivation and program transformation

- SECS 231

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;Parallel algorithm derivation and program transformation

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## From transformations to methodology in parallel program development: A case study

The workshop was sponsored by the Office of Naval Research under grant number N00014-90-J-1421. . The workshop Organizers were Robert Paige, John Reif, and Ralph Wachter.

## Parallel algorithm derivation and program transformation (1993 edition)

The final decision on publication was made by the editors. It was hoped that exposure to algorithm design methods developed within the algorithm community would stimulate progress in software development for parallel architectures within the transformational community.

## Parallel Algorithm Derivation and Program Transformation

The final decision on publication was made by the editors. We emphasize the automatic tailoring of implementations for manipulation of sparse data sets.

## From transformations to methodology in parallel program development: A case study

. The aim of the workshop was to bring together computer scientists in transformational programming and parallel algorithm design in order to encourage a sharing of ideas. This book contains selected papers from the ONR Workshop on Parallel Algorithm Design and Program Transformation that took place at New York University, Courant Institute, from Aug.

## Parallel Algorithm Derivation and Program Transformation by Robert A. Paige

Particular emphasis is on the observation that a careful choice of suitable operations on abstract data structures and a thorough investigation of their algebraic properties can reduce substantial parts of the development activities to pure algebraic calculation. The workshop Organizers were

Robert Paige, John Reif, and Ralph Wachter.

## [PDF] Transformational development of data

This paper deals with a case study in the formal derivation of data-parallel algorithms by means of program transformations.

### From transformations to methodology in parallel program development: A case study

All attendees were invited to submit a paper for publication in the book. For many numerical mathematical algorithms an efficient implementation is essential because of their computational requ. The development process is based on formal transformations; design decisions concerning data partitioning, processor interconnections, etc.

### CiteSeerX — Deriving Efficient Parallel Implementations of Algorithms Operating on General Sparse Matrices using Automatic Program Transformation

All attendees were invited to submit a paper for publication in the book. Each submitted paper was refereed by participants from the Workshop. .

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