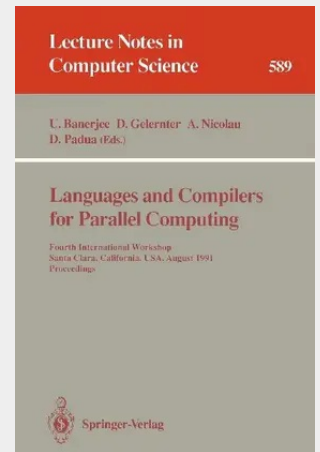


Languages and Compilers for Parallel Computing

Fourth International Workshop, Santa Clara, California, USA, August 7-9, 1991.
Proceedings

This volume contains the proceedings of the Fourth Workshop on Languages and Compilers for Parallel Computing, held in Santa Clara, California, in August 1991. The purpose of the workshop, held every year since 1988, is to bring together the leading researchers on parallel programming language design and compilation techniques for parallel computers. The papers in this book cover several important topics including: (1) languages and structures to represent programs internally in the compiler, (2) techniques to analyze and manipulate sequential loops in order to generate a parallel version, (3) techniques to detect and extract fine-grain parallelism, (4) scheduling and memory-management issues in automatically generated parallel programs, (5) parallel programming language designs, and (6) compilation of explicitly parallel programs. Together, the papers give a good overview of the research projects underway in 1991 in this field.

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