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                          Computers
                          Computer programming
                          Microprocessors
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Nota di contenuto	Parallel algorithms and architectures -- Overview of the KSLA efforts in parallel computing -- Parallel programming techniques for linear algebra -- Solution of nonlinear least squares problems on a multiprocessor -- Parallel LU decomposition on a transputer network -- Inversion=migration+tomography -- Mechanical strength of porous catalyst carriers -- A parallel cellular automata implementation on a transputer network for the simulation of small scale fluid flow experiments -- A parallel implementation of the Karmarkar algorithm using a parallel Linear Algebra library.
Sommario/riassunto	Parallel computing research is now yielding a growing stream of results, and the first applications within Shell may be expected to be delivered within a few years. The aim of this conference on parallel computing was to review the progress of research in the field and to discuss the problems which still have to be solved. The papers presented were all invited from researchers within Shell and from universities and computer industries. The subjects covered in the conference were: - Experiences with various hardware and system software configurations; - Parallel programming methods and parallel languages; - General purpose mathematical software; - Fluid flow simulation; - Optimisation in logistics applications. New results are presented for linear algebra computations, for fluid flow simulation by cellular automata, and for simulating the breakage of catalyst carriers.