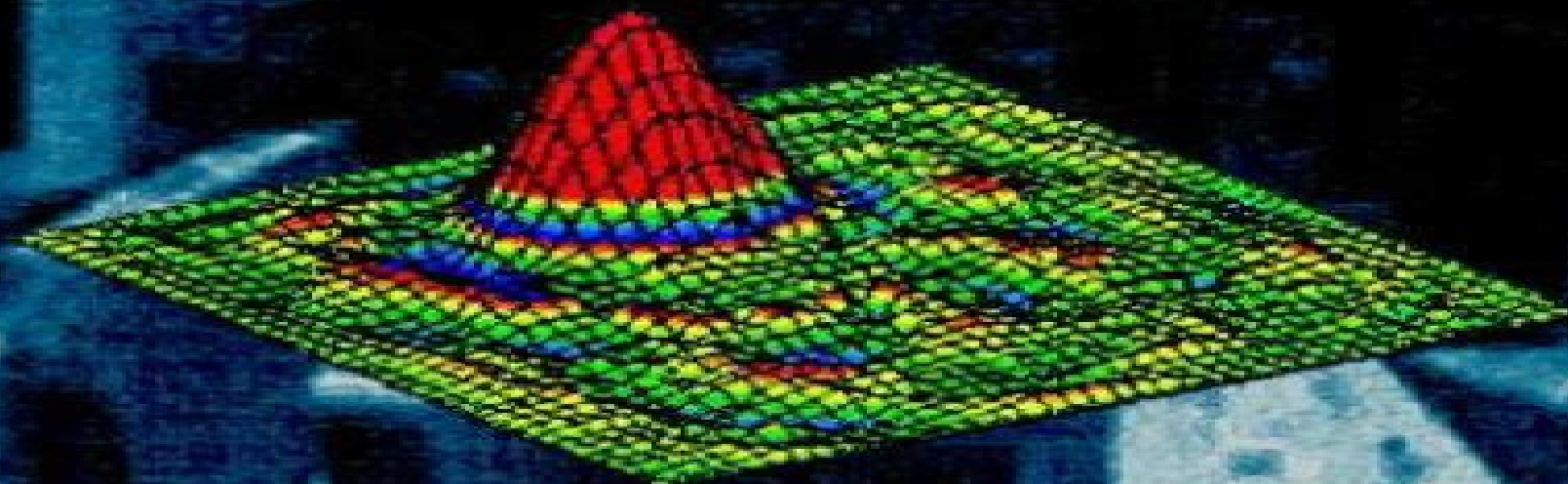


Parallel Scientific Computing in C++ and MPI

A Seamless Approach to Parallel Algorithms and Their Implementation



George Em Karniadakis
Robert M. Kirby II

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Parallel Scientific Computing

**Frédéric Magoules, François-Xavier
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Parallel Scientific Computing Frédéric Magoules, François-Xavier Roux, Guillaume Houzeaux, 2015-12-15 Scientific computing has become an indispensable tool in numerous fields such as physics mechanics biology finance and industry For example it enables us thanks to efficient algorithms adapted to current computers to simulate without the help of models or experimentations the deflection of beams in bending the sound level in a theater room or a fluid flowing around an aircraft wing This book presents the scientific computing techniques applied to parallel computing for the numerical simulation of large scale problems these problems result from systems modeled by partial differential equations Computing concepts will be tackled via examples Implementation and programming techniques resulting from the finite element method will be presented for direct solvers iterative solvers and domain decomposition methods along with an introduction to MPI and OpenMP

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Parallel Scientific Computing, 1993 *Applied Parallel Computing* Bo Kågström, Erik Elmroth, Jack Dongarra, Jerzy Wasniewski, 2007-09-22 This book constitutes the thoroughly refereed post proceedings of the 8th International Workshop on Applied Parallel Computing PARA 2006 It covers partial differential equations parallel scientific computing algorithms linear algebra simulation environments algorithms and applications for blue gene L scientific computing tools and applications parallel search algorithms peer to peer computing mobility and security algorithms for single chip multiprocessors

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