

Scott B. Baden · Nikos P. Chrisochoides
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Editors

Structured Adaptive Mesh Refinement (SAMR) Grid Methods



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Structured Adaptive Mesh Refinement Samr Grid Methods

**Tomasz Plewa, Timur Linde, V. Gregory
Weirs**

Structured Adaptive Mesh Refinement Samr Grid Methods:

Structured Adaptive Mesh Refinement (Samr) Grid Methods Scott B Baden, Nikos P Chrisochoides, Dennis B Gannon, 1999-10-01

Structured Adaptive Mesh Refinement (SAMR) Grid Methods Scott B. Baden, Nikos P. Chrisochoides, Dennis B. Gannon, Michael L. Norman, 2012-12-06

Structured adaptive mesh refinement SAMR methods have matured over the past 20 years and are now the method of choice for certain difficult problems such as compressible flow SAMR presents difficult technical challenges both in terms of the numerical techniques involved and the complexity of the programming effort especially on parallel computers In order to gain insight into managing these difficulties much research effort has been directed at mesh generation parallel computation and improvements in accuracy aimed primarily at refinement interfaces A major stumbling block in this endeavor is that many of these techniques entail substantial amounts of problem specific detail Standardization is highly unlikely except within narrowly defined problem domains The papers presented in this collection are based on talks given at the Workshop on Structured Adaptive Mesh Refinement Grid Methods held at the Institute for Mathematics and its Applications University of Minnesota on March 12 13 1997 They describe research to improve the general understanding of the application of SAMR to practical problems identify issues critical to efficient and effective implementation on high performance computers stimulate the development of a community code repository for software including benchmarks to assist in the evaluation of software and compiler technologies The ten chapters of this volume have been divided into two parts reflecting two major issues in the topic I programming complexity of SAMR algorithms and II applicability and numerical challenges of SAMR methods Part I presents three programming environments and two libraries that address the concerns of efficient execution and reduced software development times of SAMR applications Part II describes an overview of applications that can benefit from SAMR methods ranging from crack propagation and industrial boilers to

Advanced Computational Infrastructures for Parallel and Distributed Adaptive Applications Manish Parashar, Xiaolin Li, Sumir Chandra, 2010-01-05

A unique investigation of the state of the art in design architectures and implementations of advanced computational infrastructures and the applications they support Emerging large scale adaptive scientific and engineering applications are requiring an increasing amount of computing and storage resources to provide new insights into complex systems Due to their runtime adaptivity these applications exhibit complicated behaviors that are highly dynamic heterogeneous and unpredictable and therefore require full fledged computational infrastructure support for problem solving runtime management and dynamic partitioning balancing This book presents a comprehensive study of the design architecture and implementation of advanced computational infrastructures as well as the adaptive applications developed and deployed using these infrastructures from different perspectives including system architects software engineers computational scientists and application scientists Providing insights into recent research efforts and projects the authors include descriptions and experiences pertaining to the realistic modeling of

adaptive applications on parallel and distributed systems The first part of the book focuses on high performance adaptive scientific applications and includes chapters that describe high impact real world application scenarios in order to motivate the need for advanced computational engines as well as to outline their requirements The second part identifies popular and widely used adaptive computational infrastructures The third part focuses on the more specific partitioning and runtime management schemes underlying these computational toolkits Presents representative problem solving environments and infrastructures runtime management strategies partitioning and decomposition methods and adaptive and dynamic applications Provides a unique collection of selected solutions and infrastructures that have significant impact with sufficient introductory materials Includes descriptions and experiences pertaining to the realistic modeling of adaptive applications on parallel and distributed systems The cross disciplinary approach of this reference delivers a comprehensive discussion of the requirements design challenges underlying design philosophies architectures and implementation deployment details of advanced computational infrastructures It makes it a valuable resource for advanced courses in computational science and software systems engineering for senior undergraduate and graduate students as well as for computational and computer scientists software developers and other industry professionals

Adaptive Mesh Refinement - Theory and

Applications Tomasz Plewa, Timur Linde, V. Gregory Weirs, 2005-12-20 Advanced numerical simulations that use adaptive mesh refinement AMR methods have now become routine in engineering and science Originally developed for computational fluid dynamics applications these methods have propagated to fields as diverse as astrophysics climate modeling combustion biophysics and many others The underlying physical models and equations used in these disciplines are rather different yet algorithmic and implementation issues facing practitioners are often remarkably similar Unfortunately there has been little effort to review the advances and outstanding issues of adaptive mesh refinement methods across such a variety of fields This book attempts to bridge this gap The book presents a collection of papers by experts in the field of AMR who analyze past advances in the field and evaluate the current state of adaptive mesh refinement methods in scientific computing

Developments in Teracomputing Walter Zwiefelhofer, Norbert Kreitz, 2001 The geosciences particularly numerical weather prediction are demanding the highest levels of available computer power The European Centre for Medium Range Weather Forecasts with its experience in using supercomputers in this field organises every second year a workshop bringing together manufacturers computer scientists researchers and operational users to share their experiences and to learn about the latest developments This book reports on the November 2000 workshop It provides an excellent overview of the latest achievements in and plans for the use of new parallel techniques in meteorology climatology and oceanography

Cartesian CFD Methods for Complex Applications Ralf Deiterding, Margarete Oliveira Domingues, Kai Schneider, 2021-02-18 This volume collects the most important contributions from four minisymposia from ICIAM 2019 The papers highlight cutting edge applications of Cartesian CFD methods and describe the employed algorithms and numerical schemes An emphasis is

laid on complex multi physics applications like magnetohydrodynamics combustion aerodynamics with fluid structure interaction solved with various discretizations e g finite difference finite volume multiresolution or lattice Boltzmann CFD schemes Software design aspects and parallelization challenges are also considered The book is addressed to graduate students and scientists in the fields of applied mathematics and computational engineering

Adaptive Moving Mesh Methods Weizhang Huang, Robert D. Russell, 2010-10-26 Moving mesh methods are an effective mesh adaptation based approach for the numerical solution of mathematical models of physical phenomena Currently there exist three main strategies for mesh adaptation namely to use mesh subdivision local high order approximation sometimes combined with mesh subdivision and mesh movement The latter type of adaptive mesh method has been less well studied both computationally and theoretically This book is about adaptive mesh generation and moving mesh methods for the numerical solution of time dependent partial differential equations It presents a general framework and theory for adaptive mesh generation and gives a comprehensive treatment of moving mesh methods and their basic components along with their application for a number of nontrivial physical problems Many explicit examples with computed figures illustrate the various methods and the effects of parameter choices for those methods The partial differential equations considered are mainly parabolic diffusion dominated rather than convection dominated The extensive bibliography provides an invaluable guide to the literature in this field Each chapter contains useful exercises Graduate students researchers and practitioners working in this area will benefit from this book Weizhang Huang is a Professor in the Department of Mathematics at the University of Kansas Robert D Russell is a Professor in the Department of Mathematics at Simon Fraser University

Multiple-Time-Scale Dynamical Systems Christopher K.R.T. Jones, Alexander I. Khibnik, 2012-12-06 Systems with sub processes evolving on many different time scales are ubiquitous in applications chemical reactions electro optical and neuro biological systems to name just a few This volume contains papers that expose the state of the art in mathematical techniques for analyzing such systems Recently developed geometric ideas are highlighted in this work that includes a theory of relaxation oscillation phenomena in higher dimensional phase spaces Subtle exponentially small effects result from singular perturbations implicit in certain multiple time scale systems Their role in the slow motion of fronts bifurcations and jumping between invariant tori are all explored here Neurobiology has played a particularly stimulating role in the development of these techniques and one paper is directed specifically at applying geometric singular perturbation theory to reveal the synchrony in networks of neural oscillators

Parallel Solution of Partial Differential Equations Petter Bjorstad, Mitchell Luskin, 2012-12-06 This IMA Volume in Mathematics and its Applications PARALLEL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS is based on the proceedings of a workshop with the same title The work shop was an integral part of the 1996 97 IMA program on MATHEMATICS IN HIGH PERFORMANCE COMPUTING I would like to thank Petter Bjorstad of the Institutt for Informatikk University of Bergen and Mitchell Luskin of the School of Mathematics University of Minnesota for their excellent work as

organizers of the meeting and for editing the proceedings I also take this opportunity to thank the National Science Foundation NSF Department of Energy DOE and the Army Research Office ARO whose financial support made the workshop possible Willard Miller Jr Professor and Director v PREFACE The numerical solution of partial differential equations has been of major importance to the development of many technologies and has been the target of much of the development of parallel computer hardware and software Parallel computers offer the promise of greatly increased performance and the routine calculation of previously intractable problems The papers in this volume were presented at the IMA workshop on the Parallel Solution of PDE held during June 9-13 1997 The workshop brought together leading numerical analysts computer scientists and engineers to assess the state of the art and to consider future directions Codes, Systems, and Graphical Models Brian Marcus, Joachim Rosenthal, 2012-12-06 Coding theory system theory and symbolic dynamics have much in common Among the central themes in each of these subjects are the construction of state space representations understanding of fundamental structural properties of sequence spaces construction of input output systems and understanding the special role played by algebraic structure A major new theme in this area of research is that of codes and systems based on graphical models This volume contains survey and research articles from leading researchers at the interface of these subjects

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