

Domain Decomposition Methods in Science and Engineering



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Domain Decomposition Methods in Science and Engineering XVIII Michel Bercovier, Martin Gander, Ralf Kornhuber, Olof Widlund, 2009-09-01 This volume contains a selection of 41 refereed papers presented at the 18 International Conference of Domain Decomposition Methods hosted by the School of Computer Science and Engineering CSE of the Hebrew University of Jerusalem Israel January 12 17 2008 1 Background of the Conference Series The International Conference on Domain Decomposition Methods has been held in twelve countries throughout Asia Europe the Middle East and North America beginning in Paris in 1987 Originally held annually it is now spaced at roughly 18 month intervals A complete list of past meetings appears below The principal technical content of the conference has always been mathematical but the principal motivation has been to make efficient use of distributed memory computers for complex applications arising in science and engineering The leading 15 such computers at the petascale characterized by 10 oating point operations per second of processing power and as many Bytes of application addressable memory now marshal more than 200 000 independent processor cores and systems with many millions of cores are expected soon There is essentially no alternative to main decomposition as a stratagem for parallelization at such scales Contributions from mathematicians computerscientists engineers and scientists are together necessary in addressing the challenge of scale and all are important to this conference

Domain Decomposition Methods in Science and Engineering XXVII Zdeněk Dostál, Tomáš

Kozubek, Axel Klawonn, Ulrich Langer, Luca F. Pavarino, Jakub Šístek, Olof B. Widlund, 2024-01-23 These are the proceedings of the 27th International Conference on Domain Decomposition Methods in Science and Engineering which was held in Prague Czech Republic in July 2022 Domain decomposition methods are iterative methods for solving the often very large systems of equations that arise when engineering problems are discretized frequently using finite elements or other modern techniques These methods are specifically designed to make effective use of massively parallel high performance computing systems The book presents both theoretical and computational advances in this domain reflecting the state of art in 2022 Domain Decomposition Methods in Science and Engineering XXIII Chang-Ock Lee, Xiao-Chuan Cai, David E. Keyes, Hyea Hyun Kim, Axel Klawonn, Eun-Jae Park, Olof B. Widlund, 2017-03-15 This book is a collection of papers presented at the 23rd International Conference on Domain Decomposition Methods in Science and Engineering held on Jeju Island Korea on July 6 10 2015 Domain decomposition methods solve boundary value problems by splitting them into smaller boundary value problems on subdomains and iterating to coordinate the solution between adjacent subdomains Domain decomposition methods have considerable potential for a parallelization of the finite element methods and serve a basis for distributed parallel computations **Domain Decomposition Methods in Science and Engineering XX** Randolph Bank, Michael Holst, Olof Widlund, Jinchao Xu, 2013-07-03 These are the proceedings of the 20th international conference on domain decomposition methods in science and engineering Domain decomposition methods are iterative methods for solving the often very large linear or nonlinear systems of algebraic equations that arise when various problems in continuum mechanics are discretized using finite elements They are designed for massively parallel computers and take the memory hierarchy of such systems in mind This is essential for approaching peak floating point performance There is an increasingly well developed theory which is having a direct impact on the development and improvements of these algorithms Domain Decomposition Methods in Science and Engineering XXII Thomas Dickopf, Martin J. Gander, Laurence Halpern, Rolf Krause, Luca F. Pavarino, 2016-03-11 These are the proceedings of the 22nd International Conference on Domain Decomposition Methods which was held in Lugano Switzerland With 172 participants from over 24 countries this conference continued a long standing tradition of internationally oriented meetings on Domain Decomposition Methods The book features a well balanced mix of established and new topics such as the manifold theory of Schwarz Methods Isogeometric Analysis Discontinuous Galerkin Methods exploitation of modern HPC architectures and industrial applications As the conference program reflects the growing capabilities in terms of theory and available hardware allow increasingly complex non linear and multi physics simulations confirming the tremendous potential and flexibility of the domain decomposition concept *Domain Decomposition Methods in Science and Engineering XVII* Ulrich Langer, Marco Discacciati, David E. Keyes, Olof Widlund, Walter Zulehner, 2008-01-02 Domain decomposition is an active interdisciplinary research field concerned with the development analysis and implementation of coupling and decoupling strategies in mathematical and

computational models This volume contains selected papers presented at the 17th International Conference on Domain Decomposition Methods in Science and Engineering It presents the newest domain decomposition techniques and examines their use in the modeling and simulation of complex problems Domain Decomposition Methods in Science and Engineering XIX Yunqing Huang,Ralf Kornhuber,Olof Widlund,Jinchao Xu,2010-10-27 These are the proceedings of the 19th international conference on domain decomposition methods in science and engineering Domain decomposition methods are iterative methods for solving the often very large linear or nonlinear systems of algebraic equations that arise in various problems in mathematics computational science engineering and industry They are designed for massively parallel computers and take the memory hierarchy of such systems into account This is essential for approaching peak floating point performance There is an increasingly well developed theory which is having a direct impact on the development and improvement of these algorithms Advances in Turbulence Nine Naima Debit,Ian P. Castro,Philip Hancock,T. G. Thomas,2002 **Domain Decomposition Methods in Science and Engineering** Alfio Quarteroni,1994 This book contains the proceedings of the Sixth International Conference on Domain Decomposition held in June 1992 in Como Italy Much of the work in this field focuses on developing numerical methods for large algebraic systems *Domain Decomposition Methods in Science and Engineering* Ismael Herrera,David E. Keyes,2003 Domain Decomposition Methods in Sciences and Engineering R. Glowinski,1997-04-30 Domain Decomposition Methods are receiving significant attention in scientific and engineering computing They provide a broad class of effective numerical methods for the solution of large scale mathematical physical problems from sciences and engineering This book contains invited and contributed papers from the 8th Domain Decomposition Methods Conference The topics addressed range from basic theoretical research to industrial applications basic algorithms multilevel methods parallel computing transport wave and flow problems Applications include problems from fluid and structural mechanics electromagnetics and petroleum engineering **Domain Decomposition Methods 18** ,2009 *Recent Developments in Domain Decomposition Methods* Luca F. Pavarino,Andrea Toselli,2012-12-06 The main goal of this book is to provide an overview of some of the most recent developments in the field of Domain Decomposition Methods Domain decomposition relates to the construction of preconditioners for the large algebraic systems of equations which often arise in applications by solving smaller instances of the same problem It also relates to the construction of approximation methods built from different discretizations in different subdomains The resulting methods are among the most successful parallel solvers for many large scale problems in computational science and engineering The papers in this collection reflect some of the most active research areas in domain decomposition such as novel FETI Neumann Neumann overlapping Schwarz and Mortar methods

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