

# Domain Decomposition

First, decide how data elements should be divided among cores

Second, decide which tasks each core should be doing

Example: Vector addition



# Domain Decomposition Methods

**Y Pai**

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*Domain Decomposition Methods - Algorithms and Theory* Andrea Toselli, Olof Widlund, 2006-06-20 This book offers a comprehensive presentation of some of the most successful and popular domain decomposition preconditioners for finite and spectral element approximations of partial differential equations It places strong emphasis on both algorithmic and mathematical aspects It covers in detail important methods such as FETI and balancing Neumann Neumann methods and algorithms for spectral element methods

*Domain Decomposition* Barry Smith, Petter Bjorstad, William Gropp, 2004-03-25 Presents an easy to read discussion of domain decomposition algorithms their implementation and analysis Ideal for graduate students about to embark on a career in computational science It will also be a valuable resource for all those interested in parallel computing and numerical computational methods

*An Introduction to Domain Decomposition Methods* Victorita Dolean, Pierre Jolivet, Frederic Nataf, 2015-12-08 The purpose of this book is to offer an overview of the most popular domain decomposition methods for partial differential equations PDEs These methods are widely used for numerical simulations in solid mechanics electromagnetism flow in porous media etc on parallel machines from tens to hundreds of thousands of cores The appealing feature of domain decomposition methods is that contrary to direct methods they are naturally parallel The authors focus on parallel linear solvers The authors present all popular algorithms both at the PDE level and at the discrete level in terms of matrices along with systematic scripts for sequential implementation in a free open source finite element package as well as some parallel scripts Also included is a new coarse space construction two level method that adapts to highly heterogeneous problems

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[Domain Decomposition Methods in Science and Engineering XVI](#) Olof Widlund, David

E. Keyes, 2007-07-30 Domain decomposition is an active interdisciplinary research area concerned with the development analysis and implementation of coupling and decoupling strategies in mathematical and computational models of natural and engineered systems Since the advent of hierarchical distributed memory computers it has been motivated by considerations of concurrency and locality in a wide variety of large scale problems continuous and discrete Historically it emerged from the analysis of partial differential equations beginning with the work of Schwarz in 1870 The present volume sets forth new contributions in areas of numerical analysis computer science scientific and industrial applications and software development

**Domain Decomposition Methods in Science and Engineering XXIV** Petter E. Bjørstad, Susanne C.

Brenner, Lawrence Halpern, Hyea Hyun Kim, Ralf Kornhuber, Talal Rahman, Olof B. Widlund, 2019-01-05 These are the proceedings of the 24th International Conference on Domain Decomposition Methods in Science and Engineering which was held in Svalbard Norway in February 2017 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 2017

**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 *Domain in Decomposition Methods in Optimal Control of*

*Partial Differential Equations* John E. Lagnese, Günter Leugering, 2004-09-27 While domain decomposition methods have a long history dating back well over one hundred years it is only during the last decade that they have become a major tool in numerical analysis of partial differential equations This monograph emphasizes domain decomposition methods in the context of so called virtual optimal control problems and treats optimal control problems for partial differential equations and their decompositions using an all at once approach

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*Fourth International Symposium on Domain Decomposition Methods for Partial Differential Equations* R. Glowinski, 1991-01-01 Focuses on the notion that by breaking the domain of the original problem into subdomains such an approach can if properly implemented lead to a considerable speedup The methods are particularly well suited for parallel computers

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