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*Sparse Grids and Applications - Munich 2012* Jochen Garcke, Dirk Pflüger, 2014-04-11 Sparse grids have gained increasing interest in recent years for the numerical treatment of high dimensional problems Whereas classical numerical discretization schemes fail in more than three or four dimensions sparse grids make it possible to overcome the curse of dimensionality to some degree extending the number of dimensions that can be dealt with This volume of LNCSE collects the papers from the proceedings of the second workshop on sparse grids and applications demonstrating once again the importance of this numerical discretization scheme The selected articles present recent advances on the numerical analysis of sparse grids as well as efficient data structures and the range of applications extends to uncertainty quantification settings

and clustering to name but a few examples      *Sparse Grids and Applications - Miami 2016* Jochen Garcke, Dirk Pflüger, Clayton G. Webster, Guannan Zhang, 2018-06-20 Sparse grids are a popular tool for the numerical treatment of high dimensional problems Where classical numerical discretization schemes fail in more than three or four dimensions sparse grids in their different flavors are frequently the method of choice This volume of LNCSE presents selected papers from the proceedings of the fourth workshop on sparse grids and applications and demonstrates once again the importance of this numerical discretization scheme The articles present recent advances in the numerical analysis of sparse grids in connection with a range of applications including computational chemistry computational fluid dynamics and big data analytics to name but a few      *Sparse Grids and Applications -- Munich 2018*, 2021 Sparse grids are a popular tool for the numerical treatment of high dimensional problems Where classical numerical discretization schemes fail in more than three or four dimensions sparse grids in their different flavors are frequently the method of choice This volume of LNCSE presents selected papers from the proceedings of the fifth workshop on sparse grids and applications and demonstrates once again the importance of this numerical discretization scheme The articles present recent advances in the numerical analysis of sparse grids in connection with a range of applications including uncertainty quantification plasma physics simulations and computational chemistry to name but a few      **Parallelisation of Sparse Grids for Large Scale Data Analysis** Jochen Garcke, Markus Hegland, Ole Nielsen, 2003      On the Parallelization of the Sparse Grid Approach for Data Mining Jochen Garcke, Michael Griebel, 2001      *Spatially Adaptive Sparse Grids for High-dimensional Problems* Dirk Pflüger, 2010      Sparse Grid Quadrature in High Dimensions with Applications in Finance and Insurance Markus Holtz, 2008      Sparse Grid Methods for Higher Dimensional Approximation Christian Feuersänger, 2010 Approximation of functions depending on more than three variables is relevant for the simulation of dynamic models Especially stochastic models lead to a wide range of applications like simulation of polymeric liquids kinetic equations for forces acting on offshore wind parks or even the pricing of financial products Sparse Grids have been designed to significantly reduce the cost to approximate high dimensional functions under certain smoothness conditions This book presents tools to design and work with Sparse Grids including construction properties algorithms data structures and error estimates It also discusses inherent limitations and their benefits when it comes to the simulation of stochastic models namely to the representation of probability density functions Furthermore the book reveals new space and dimension adaptive Sparse Grids which are suitable for functions that effectively depend on only a few of their input variables      *Analysis and Performance Engineering for Learning with Sparse Grids* Paul-Cristian Sârbu, 2022      **Sparse Grids** Technische Universität München. Institut für Informatik, Christoph Zenger, 1990      **Higher Order Elements on Sparse Grids** H.-J. Bungartz, 1995      *Exploiting Many-Core Architectures for Dimensionally Adaptive Sparse Grids* Gerrit Buse, 2015

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