

Vladimir Temlyakov

Sparse Approximation with Bases



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Sparse Approximation with Bases Vladimir Temlyakov,2015-03-27 This book systematically presents recent fundamental results on greedy approximation with respect to bases Motivated by numerous applications the last decade has seen great successes in studying nonlinear sparse approximation Recent findings have established that greedy type algorithms are suitable methods of nonlinear approximation in both sparse approximation with respect to bases and sparse approximation with respect to redundant systems These insights combined with some previous fundamental results form the basis for constructing the theory of greedy approximation Taking into account the theoretical and practical demand for this kind of theory the book systematically elaborates a theoretical framework for greedy approximation and its applications The book addresses the needs of researchers working in numerical mathematics harmonic analysis and functional analysis It quickly takes the reader from classical results to the latest frontier but is written at the level of a graduate course and does not require a broad background in the field

Multivariate Approximation V. Temlyakov,2018-07-19 This self contained systematic treatment of multivariate approximation begins with classical linear approximation and moves on to contemporary nonlinear approximation It covers substantial new developments in the linear approximation theory of classes with mixed smoothness and shows how it is directly related to deep problems in other areas of mathematics For example numerical integration of these classes is closely related to discrepancy theory and to nonlinear approximation with respect to special redundant dictionaries and estimates of the entropy numbers of classes with mixed smoothness are closely related to in some cases equivalent to the Small Ball Problem from probability theory The useful background material included in the book makes it accessible to graduate students Researchers will find that the many open problems in the theory outlined in the book provide helpful directions and guidance for their own research in this exciting and active area

Sparse Grids and Applications - Munich 2018 Hans-Joachim Bungartz,Jochen Garcke,Dirk Pflüger,2022-03-14 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

Multiscale, Nonlinear and Adaptive Approximation II Ronald DeVore,Angela Kunoth,2024-12-03 This book presents a collection of high quality papers in applied and numerical mathematics as well as approximation theory all closely related to Wolfgang Dahmen's scientific contributions Compiled in honor of his 75th birthday the papers are written by leading experts and cover topics including nonlinear approximation theory numerical analysis of partial differential equations learning theory and electron microscopy A unifying theme throughout the collection is the

emphasis on a solid mathematical foundation which serves as the basis for the most efficient numerical algorithms used to simulate complex phenomena [Hyperbolic Cross Approximation](#) Dinh Dũng, Vladimir Temlyakov, Tino Ullrich, 2018-11-02
This book provides a systematic survey of classical and recent results on hyperbolic cross approximation. Motivated by numerous applications the last two decades have seen great success in studying multivariate approximation. Multivariate problems have proven to be considerably more difficult than their univariate counterparts and recent findings have established that multivariate mixed smoothness classes play a fundamental role in high dimensional approximation. The book presents essential findings on and discussions of linear and nonlinear approximations of the mixed smoothness classes. Many of the important open problems explored here will provide both students and professionals with inspirations for further research [**Advanced courses in mathematics - CRM Barcelona**](#) Centre de Recerca Matemàtica (Barcelona), 19??

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