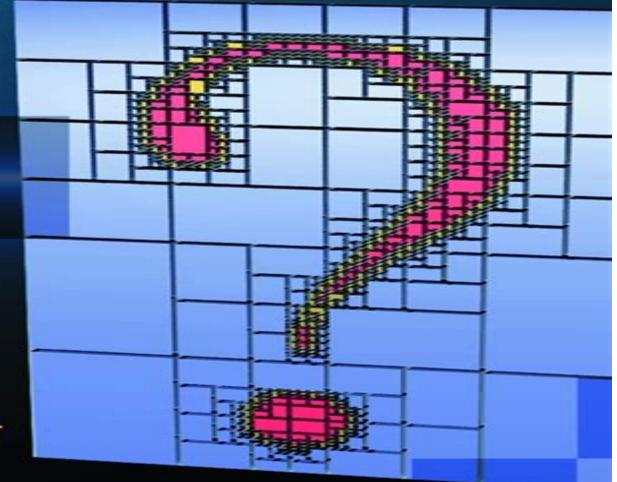


APPLIED INTERVAL ANALYSIS

Luc Jaulin Michel Kieffer Olivier Didrit and Éric Walter





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Mathematics L. B. Rall, WISCONSIN UNIV-MADISON MATHEMATICS RESEARCH CENTER., 1981 Interval arithmetic has been found to be useful in numerical analysis as an automatic means to bound data truncation and roundoff errors in computations Now that the speed of microprogrammed interval arithmetic approaches that of standard floating point operations a wider range of application to engineering and other problems has become feasible Since in many practical situations data are only known to lie within intervals and only ranges of values are sought as satisfactory answers straightforward interval computation can yield the desired results Examples of this type of application are worst case analysis of the stability of structures and the performance of electrical circuits. The recently developed theory of integration of interval functions also bears directly on the problems of solution of integral equations and the minimization of functionals defined in terms of integrals Since certain chaotic phenomena such as catastrophes and turbulence are difficult to describe by single valued functions the introduction of interval functions and the corresponding analysis may lead to simpler models which will yield results of accuracy satisfactory for practical purposes Applied and Computational Matrix Analysis Natália Bebiano, 2017-03-01 This volume presents recent advances in the field of matrix analysis based on contributions at the MAT TRIAD 2015 conference Topics covered include interval linear algebra and computational complexity Birkhoff polynomial basis tensors graphs linear pencils K theory and statistic inference showing the ubiquity of matrices in different mathematical areas With a particular focus on matrix and operator theory statistical models and computation the International Conference on Matrix Analysis and its Applications 2015 held in Coimbra Portugal was the sixth in a series of conferences Applied and Computational Matrix Analysis will appeal to graduate students and researchers in theoretical and applied mathematics physics and engineering who are seeking an overview of recent problems and methods in matrix analysis Parallel Processing and Applied Mathematics Roman Wyrzykowski, Jack Dongarra, Ewa Deelman, Konrad Karczewski, 2023-04-26 This two volume set LNCS 13826 and LNCS 13827 constitutes the proceedings of the 14th International Conference on Parallel Processing and Applied Mathematics PPAM 2022 held in Gdansk Poland in September 2022 The 77 regular papers presented in these volumes were selected from 132 submissions For regular tracks of the conference 33 papers were selected from 62 submissions. The papers were organized in topical sections named as follows Part I numerical algorithms and parallel scientific computing parallel non numerical algorithms GPU computing performance analysis and prediction in HPC systems scheduling for parallel computing environments and frameworks for parallel cloud computing applications of parallel and distributed computing soft computing with applications and special session on parallel EVD SVD and its application in matrix computations Part II 9th Workshop on Language Based Parallel Programming WLPP 2022 6th Workshop on Models Algorithms and Methodologies for Hybrid Parallelism in New HPC Systems MAMHYP 2022 first workshop on quantum computing and communication First Workshop on Applications of Machine Learning and Artificial Intelligence in High Performance Computing WAML 2022 4th workshop on applied high performance numerical algorithms

for PDEs 5th minisymposium on HPC applications in physical sciences 8th minisymposium on high performance computing interval methods 7th workshop on complex collective systems Interval Methods for Solving Nonlinear Constraint Satisfaction, Optimization and Similar Problems Bartłomiej Jacek Kubica, 2019-03-08 This book highlights recent research on interval methods for solving nonlinear constraint satisfaction optimization and similar problems Further it presents a comprehensive survey of applications in various branches of robotics artificial intelligence systems economics control theory dynamical systems theory and others Three appendices on the notation representation of numbers used as intervals endpoints and sample implementations of the interval data type in several programming languages round out the coverage

Introduction to Interval Analysis Ramon E. Moore,R. Baker Kearfott,Michael J. Cloud,2009-01-01 An update on the author s previous books this introduction to interval analysis provides an introduction to INTLAB a high quality comprehensive MATLAB toolbox for interval computations making this the first interval analysis book that does with INTLAB what general numerical analysis texts do with MATLAB

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