METHODS AND APPLICATIONS OF ERROR-FREE COMPUTATION

R.T. Gregory
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Errorfree Computation Why It Is Needed And Methods For Doing It

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Errorfree Computation Why It Is Needed And Methods For Doing It:

Error-free Computation Robert Todd Gregory,1980   Methods and Applications of Error-Free Computation R. T. Gregory,E. V. Krishnamurthy,2012-12-06 This book is written as an introduction to the theory of error free computation In addition we include several chapters that illustrate how error free com putation can be applied in practice The book is intended for seniors and first year graduate students in fields of study involving scientific computation using digital computers and for researchers in those same fields who wish to obtain an introduction to the subject We are motivated by the fact that there are large classes of ill conditioned problems and there are numerically unstable algorithms and in either or both of these situations we cannot tolerate rounding errors during the numerical computations involved in obtaining solutions to the problems Thus it is important to study finite number systems for digital computers which have the property that computation can be performed free of rounding errors In Chapter I we discuss single modulus and multiple modulus residue number systems and arithmetic in these systems where the operands may be either integers or rational numbers In Chapter II we discuss finite segment p adic number systems and their relationship to the p adic numbers of Hensel 1908 Each rational number in a certain finite set is assigned a unique Hensel code and arithmetic operations using Hensel codes as operands is mathe matically equivalent to those same arithmetic operations using the cor responding rational numbers as operands Finite segment p adic arithmetic shares with residue arithmetic the property that it is free of rounding errors

Numerical Analysis: Historical Developments in the 20th Century C. Brezinski,L. Wuytack,2012-12-02 Numerical analysis has witnessed many significant developments in the 20th century This book brings together 16 papers dealing with historical developments survey papers and papers on recent trends in selected areas of numerical analysis such as approximation and interpolation solution of linear systems and eigenvalue problems iterative methods quadrature rules solution of ordinary partial and integral equations The papers are reprinted from the 7 volume project of the Journal of Computational and Applied Mathematics on homepage sac cam na2000 index htmlNumerical Analysis 2000 An introductory survey paper deals with the history of the first courses on numerical analysis in several countries and with the landmarks in the development of important algorithms and concepts in the field   **Architecture of Computing Systems -- ARCS 2013** Hana Kubatova,Christian Hochberger,Martin Daněk,Bernhard Sick,2013-02-12 This book constitutes the refereed proceedings of the 26th International Conference on Architecture of Computing Systems ARCS 2013 held in Prague Czech Republic in February 2013 The 29 papers presented were carefully reviewed and selected from 73 submissions The topics covered are computer architecture topics such as multi cores memory systems and parallel computing adaptive system architectures such as reconfigurable systems in hardware and software customization and application specific accelerators in heterogeneous architectures organic and autonomic computing including both theoretical and practical results on self organization self configuration self optimization self healing and self protection techniques operating systems including but

not limited to scheduling memory management power management RTOS energy awareness and green computing

Error-Free Polynomial Matrix Computations E.V. Krishnamurthy,2012-12-06 This book is written as an introduction to polynomial matrix computa tions It is a companion volume to an earlier book on Methods and Applications of Error Free Computation by R T Gregory and myself published by Springer Verlag New York 1984 This book is intended for seniors and graduate students in computer and system sciences and mathematics and for researchers in the fields of computer science numerical analysis systems theory and computer algebra Chapter I introduces the basic concepts of abstract algebra including power series and polynomials This chapter is essentially meant for bridging the gap between the abstract algebra and polynomial matrix computations Chapter II is concerned with the evaluation and interpolation of polynomials The use of these techniques for exact inversion of poly nomial matrices is explained in the light of currently available error free computation methods In Chapter III the principles and practice of Fourier evaluation and interpolation are described In particular the application of error free discrete Fourier transforms for polynomial matrix computations is consi dered

Computational Error and Complexity in Science and Engineering Vangipuram Lakshmikantham,Syamal Kumar Sen,2005-03-04 The book Computational Error and Complexity in Science and Engineering pervades all the science and engineering disciplines where computation occurs Scientific and engineering computation happens to be the interface between the mathematical model problem and the real world application One needs to obtain good quality numerical values for any real world implementation Just mathematical quantities symbols are of no use to engineers technologists Computational complexity of the numerical method to solve the mathematical model also computed along with the solution on the other hand will tell us how much computation computational effort has been spent to achieve that quality of result Anyone who wants the specified physical problem to be solved has every right to know the quality of the solution as well as the resources spent for the solution The computed error as well as the complexity provide the scientific convincing answer to these questions Specifically some of the disciplines in which the book will be readily useful are i Computational Mathematics ii Applied Mathematics Computational Engineering Numerical and Computational Physics Simulation and Modelling Operations Research both deterministic and stochastic Computing Methodologies Computer Applications and Numerical Methods in Engineering Key Features Describes precisely ready to use computational error and complexity Includes simple easy to grasp examples wherever necessary Presents error and complexity in error free parallel and probabilistic methods Discusses deterministic and probabilistic methods with error and complexity Points out the scope and limitation of mathematical error bounds Provides a comprehensive up to date bibliography after each chapter Describes precisely ready to use computational error and complexity Includes simple easy to grasp examples wherever necessary Presents error and complexity in error free parallel and probabilistic methods Discusses deterministic and probabilistic methods with error and complexity Points out the scope and limitation of mathematical error bounds Provides a comprehensive up to date

bibliography after each chapter **Computational Linguistics and Intelligent Text Processing** Alexander Gelbukh,2005-01-27 CICLing 2005 www CICLing org was the 6th Annual Conference on Intelligent Text Processing and Computational Linguistics It was intended to provide a balanced view of the cutting edge developments in both the theoretical foundations of computational linguistics and the practice of natural language text processing with its numerous applications A feature of CICLing conferences is their wide scope that covers nearly all areas of computational linguistics and all aspects of natural language processing applications This year we were honored by the presence of our keynote speakers Christian Boitet CLIPS IMAG Grenoble Kevin Knight ISI Daniel Marcu ISI and Ellen Riloff University of Utah who delivered excellent extended lectures and organized vivid discussions and encouraging tutorials their invited papers are published in this volume Of 151 submissions received 88 were selected for presentation 53 as full papers and 35 as short papers by exactly 200 authors from 26 countries USA 15 papers Mexico 12 China 9 5 Spain 7 5 South Korea 5 5 Singapore 5 Germany 4 8 Japan 4 UK 3 5 France 3 3 India 3 Italy 3 Czech Republic 2 5 Romania 2 3 Brazil Canada Greece Ireland Israel the Netherlands Norway Portugal Sweden Switzerland 1 each Hong Kong 0 5 and Russia 0 5 including the invited papers Internationally co authored papers are counted in equal fractions **Robust and Error-Free Geometric Computing** Dave Eberly,2021-02-27 This is a how to book for solving geometric problems robustly or error free in actual practice The contents and accompanying source code are based on the feature requests and feedback received from industry professionals and academics who want both the descriptions and source code for implementations of geometric algorithms The book provides a framework for geometric computing using several arithmetic systems and describes how to select the appropriate system for the problem at hand Key Features A framework of arithmetic systems that can be applied to many geometric algorithms to obtain robust or error free implementations Detailed derivations for algorithms that lead to implementable code Teaching the readers how to use the book concepts in deriving algorithms in their fields of application The Geometric Tools Library a repository of well tested code at the Geometric Tools website https www geometrictools com that implements the book concepts **Computational Science and Its Applications – ICCSA 2023 Workshops** Osvaldo Gervasi,Beniamino Murgante,Ana Maria A. C. Rocha,Chiara Garau,Francesco Scorza,Yeliz Karaca,Carmelo M. Torre,2023-06-30 This nine volume set LNCS 14104 14112 constitutes the refereed workshop proceedings of the 23rd International Conference on Computational Science and Its Applications ICCSA 2023 held at Athens Greece during July 3 6 2023 The 350 full papers and 29 short papers and 2 PHD showcase papers included in this volume were carefully reviewed and selected from a total of 876 submissions These nine volumes includes the proceedings of the following workshops Advances in Artificial Intelligence Learning Technologies Blended Learning STEM Computational Thinking and Coding AAILT 2023 Advanced Processes of Mathematics and Computing Models in Complex Computational Systems ACMC 2023 Artificial Intelligence supported Medical data examination AIM 2023 Advanced and Innovative web Apps AIWA 2023 Assessing Urban Sustainability ASUS

2023 Advanced Data Science Techniques with applications in Industry and Environmental Sustainability ATELIERS 2023 Advances in Web Based Learning AWBL 2023 Blockchain and Distributed Ledgers Technologies and Applications BDLTA 2023 Bio and Neuro inspired Computing and Applications BIONCA 2023 Choices and Actions for Human Scale Cities Decision Support Systems CAHSC DSS 2023 and Computational and Applied Mathematics CAM 2023   Computer-Aided Geometric Design Fujio Yamaguchi,2002-10-14 Computer graphics computer aided design and computer aided manufacturing are tools that have become indispensable to a wide array of activities in contemporary society Euclidean processing provides the basis for these computer aided design systems although it contains elements that inevitably lead to an inaccurate non robust and complex system The primary cause of the deficiencies of Euclidean processing is the division operation which becomes necessary if an n space problem is to be processed in n space The difficulties that accompany the division operation may be avoided if processing is conducted entirely in n 1 space The paradigm attained through the logical extension of this approach totally four dimensional processing is the subject of this book This book offers a new system of geometric processing techniques that attain accurate robust and compact computations and allow the construction of a systematically structured CAD system   **DNA Computing** Anne Condon,Grzegorz Rozenberg,2003-06-29 The papers in this volume were presented at the 6th International Meeting on DNA Based Computers organized by the Leiden Center for Natural Computing and held from June 13 to June 17 2000 at The Lorentz Center University of Leiden Leiden The Netherlands DNA Computing is a novel and fascinating development at the interface of computer science and molecular biology It has emerged in recent years not simply as an exciting technology for information processing but also as a catalyst for knowledge transfer between information processing nanotechnology and biology This area of research has the potential to change our understanding of the theory and practice of computing The call for papers and poster presentations sought contributions of original research and technical expositions in all areas of bio computation A total of 33 abstracts were submitted of which 16 were accepted for presentation and included in the proceedings The papers were selected by the program committee based on originality and quality of research and on relevance to the bio computing eld Invited talks were given by Masami Hagiya Tokyo University Laura La weber Princeton University John Reif Duke University Thomas Schmidt Leiden University and Lloyd M Smith University of Wisconsin Invited pers based on the talks by Hagiya and Reif are included in this volume along with the contributed papers Additional tutorials were held on the rst and last days of the conference

Computing Handbook Teofilo Gonzalez,Jorge Diaz-Herrera,Allen Tucker,2014-05-07 The first volume of this popular handbook mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers it examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software

engineering and its effect on the practice of software development and the education of software professionals

Computing Handbook Allen Tucker,Teofilo Gonzalez,Heikki Topi,Jorge Diaz-Herrera,2022-05-29 This two volume set of the Computing Handbook Third Edition previously theComputer Science Handbook provides up to date information on a wide range of topics in computer science information systems IS information technology IT and software engineering The third edition of this popular handbook addresses not only the dramatic growth of computing as a discipline but also the relatively new delineation of computing as a family of separate disciplines as described by the Association for Computing Machinery ACM the IEEE Computer Society IEEE CS and the Association for Information Systems AIS Both volumes in the set describe what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century Chapters are organized with minimal interdependence so that they can be read in any order and each volume contains a table of contents and subject index offering easy access to specific topics The first volume of this popular handbook mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers it examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals The second volume of this popular handbook demonstrates the richness and breadth of the IS and IT disciplines The book explores their close links to the practice of using managing and developing IT based solutions to advance the goals of modern organizational environments Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in depth perspectives on the contributions of academic research to the practice of IS and IT development use and management Advanced Soft Computing Techniques in Data Science, IoT and Cloud Computing Sujata Dash,Subhendu Kumar Pani,Ajith Abraham,Yulan Liang,2021-11-05 This book plays a significant role in improvising human life to a great extent The new applications of soft computing can be regarded as an emerging field in computer science automatic control engineering medicine biology application natural environmental engineering and pattern recognition Now the exemplar model for soft computing is human brain The use of various techniques of soft computing is nowadays successfully implemented in many domestic commercial and industrial applications due to the low cost and very high performance digital processors and also the decline price of the memory chips This is the main reason behind the wider expansion of soft computing techniques and its application areas These computing methods also play a significant role in the design and optimization in diverse engineering disciplines With the influence and the

development of the Internet of things IoT concept the need for using soft computing techniques has become more significant than ever In general soft computing methods are closely similar to biological processes than traditional techniques which are mostly based on formal logical systems such as sentential logic and predicate logic or rely heavily on computer aided numerical analysis Soft computing techniques are anticipated to complement each other The aim of these techniques is to accept imprecision uncertainties and approximations to get a rapid solution However recent advancements in representation soft computing algorithms fuzzy logic evolutionary computation machine learning and probabilistic reasoning generate a more intelligent and robust system providing a human interpretable low cost approximate solution Soft computing based algorithms have demonstrated great performance to a variety of areas including multimedia retrieval fault tolerance system modelling network architecture Web semantics big data analytics time series biomedical and health informatics etc Soft computing approaches such as genetic programming GP support vector machine firefly algorithm SVM FFA artificial neural network ANN and support vector machine wavelet SVM Wavelet have emerged as powerful computational models These have also shown significant success in dealing with massive data analysis for large number of applications All the researchers and practitioners will be highly benefited those who are working in field of computer engineering medicine biology application signal processing and mechanical engineering This book is a good collection of state of the art approaches for soft computing based applications to various engineering fields It is very beneficial for the new researchers and practitioners working in the field to quickly know the best performing methods They would be able to compare different approaches and can carry forward their research in the most important area of research which has direct impact on betterment of the human life and health This book is very useful because there is no book in the market which provides a good collection of state of the art methods of soft computing based models for multimedia retrieval fault tolerance system modelling network architecture Web semantics big data analytics time series and biomedical and health informatics *Geometric Computations with Interval and New Robust Methods* H Ratschek,J Rokne,2003-12-01 This undergraduate and postgraduate text will familiarise readers with interval arithmetic and related tools to gain reliable and validated results and logically correct decisions for a variety of geometric computations plus the means for alleviating the effects of the errors It also considers computations on geometric point sets which are neither robust nor reliable in processing with standard methods The authors provide two effective tools for obtaining correct results a interval arithmetic and b ESSA the new powerful algorithm which improves many geometric computations and makes them rounding error free Familiarises the reader with interval arithmetic and related tools to gain reliable and validated results and logically correct decisions for a variety of geometric computations Provides two effective methods for obtaining correct results in interval arithmetic and ESSA *Smart Computing Techniques and Applications* Suresh Chandra Satapathy,Vikrant Bhateja,Margarita N. Favorskaya,T. Adilakshmi,2021-07-13 This book presents best selected papers presented at the 4th International Conference on Smart Computing and Informatics

SCI 2020 held at the Department of Computer Science and Engineering Vasavi College of Engineering Autonomous Hyderabad Telangana India It presents advanced and multi disciplinary research towards the design of smart computing and informatics The theme is on a broader front which focuses on various innovation paradigms in system knowledge intelligence and sustainability that may be applied to provide realistic solutions to varied problems in society environment and industries The scope is also extended towards the deployment of emerging computational and knowledge transfer approaches optimizing solutions in various disciplines of science technology and health care   *Computational Methods in Science and Technology* Sukhpreet Kaur,Sushil Kamboj,Manish Kumar,Arvind Dagur,Dhirendra Kumar Shukla,2024-10-10 This book contains the proceedings of the 4TH International Conference on Computational Methods in Science and Technology ICCMST 2024 The proceedings explores research and innovation in the field of Internet of things Cloud Computing Machine Learning Networks System Design and Methodologies Big Data Analytics and Applications ICT for Sustainable Environment Artificial Intelligence and it provides real time assistance and security for advanced stage learners researchers and academicians has been presented This will be a valuable read to researchers academicians undergraduate students postgraduate students and professionals within the fields of Computer Science Sustainability and Artificial Intelligence   Reviews in Numerical Analysis, 1980-86 ,1987 These five volumes bring together a wealth of bibliographic information in the area of numerical analysis Containing over 17 600 reviews of articles books and conference proceedings these volumes represent all the numerical analysis entries that appeared in Mathematical Reviews between 1980 and 1986 Author and key indexes appear at the end of volume 5   *Advances in Computational Methods in Sciences and Engineering 2005 (2 vols)* Theodore Simos,George Maroulis,2022-05-04 This volume brings together selected contributed papers presented at the International Conference of Computational Methods in Science and Engineering ICCMSE 2005 held in Greece 21 aEURO 26 October 2005 The conference aims to bring together computational scientists from several disciplines in order to share methods and ideas The ICCMSE is unique in its kind It regroups original contributions from all fields of the traditional Sciences Mathematics Physics Chemistry Biology Medicine and all branches of Engineering It would be perhaps more appropriate to define the ICCMSE as a conference on computational science and its applications to science and engineering Topics of general interest are Computational Mathematics Theoretical Physics and Theoretical Chemistry Computational Engineering and Mechanics Computational Biology and Medicine Computational Geosciences and Meteorology Computational Economics and Finance Scientific Computation High Performance Computing Parallel and Distributed Computing Visualization Problem Solving Environments Numerical Algorithms Modelling and Simulation of Complex System Web based Simulation and Computing Grid based Simulation and Computing Fuzzy Logic Hybrid Computational Methods Data Mining Information Retrieval and Virtual Reality Reliable Computing Image Processing Computational Science and Education etc More than 800 extended abstracts have been submitted for consideration for presentation in ICCMSE 2005

From these 500 have been selected after international peer review by at least two independent reviewers **Soft Computing Applications for Database Technologies: Techniques and Issues** Anbumani, K.,Nedunchezhian, R.,2010-06-30 The digital revolution and the explosive growth of the internet have helped the collection of huge amounts of useful data of diverse characteristics which is a valuable and intangible asset in any business of today This book treats the new emerging discipline of soft computing which exploits this data through tolerance for imprecision and uncertainty to achieve solutions for complex problems Soft computing methodologies include fuzzy sets neural networks genetic algorithms Bayesian belief networks and rough sets which are explored in detail through case studies and in depth research The advent of soft computing marks a significant paradigm shift in computing with a wide range of applications and techniques which are presented and discussed in the chapters of this book

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