

**René Alt  
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LNCSE 2991

# **Numerical Software with Result Verification**


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Revised Papers**



**Springer**

# Numerical Software With Result Verification

**George Deodatis, Bruce R.  
Ellingwood, Dan M. Frangopol**



## **Numerical Software With Result Verification:**

**Numerical Software with Result Verification** René Alt, Andreas Frommer, R. Baker Kearfott, Wolfram Luther, 2004-02-12 Reliable computing techniques are essential if the validity of the output of a numerical algorithm is to be guaranteed to be correct Our society relies more and more on computer systems Usually our systems appear to work successfully but there are sometimes serious and often minor errors Validated computing is one essential technology to achieve increased software reliability Formal logic in the definition of data types the computer arithmetic in algorithm design and in program execution allows us to guarantee that the stated problem has or does not have a solution in an enclosing interval we compute If the enclosure is narrow we are certain that the result can be used Otherwise we have a clear warning that the uncertainty of input values might be large and the algorithm and the model have to be improved The use of interval data types and algorithms with controlled rounding and result verification capture uncertainty in modeling and problem formulation in model parameter estimation in algorithm truncation in operation round off and in model interpretation The techniques of validated computing have proven their merits in many scientific and engineering applications They are based on solid and interesting theoretical studies in mathematics and computer science Contributions from fields including real complex and functional analysis semigroups probability statistics fuzzy interval analysis fuzzy logic automatic differentiation computer hardware operating systems compiler construction programming languages object oriented modeling parallel processing and software engineering are all essential

**Numerical Software with Result Verification** René Alt, Andreas Frommer, R. Baker Kearfott, 2014-01-15

**Numerical Software Verification** Majid Zamani, Damien Zufferey, 2019-08-02 This book constitutes the proceedings of the 12th International Workshop on Numerical Software Verification NSV 2019 held in New York City NY USA in July 2019 colocated with the International Conference on Computer Aided Verification CAV 2019 The 5 full papers presented together with 2 short papers 3 abstracts of invited talks and 2 tutorial papers were carefully reviewed and selected from numerous submissions The NSV 2017 workshop is dedicated to the development of logical and mathematical techniques for the reasoning about programmability and reliability

*Numerical Software Verification* Alessandro Abate, Sylvie Boldo, 2017-07-11 This book constitutes the proceedings of the 10th International Workshop on Numerical Software Verification NSV 2017 held in Heidelberg Germany in July 2017 colocated with the International Workshop on Formal Methods for Rigorous Systems Engineering of Cyber Physical Systems RISE4CPS 2017 a one time invited only event The 3 full papers presented together with 3 short papers 2 keynote abstracts and 4 invited abstracts were carefully reviewed and selected from numerous submissions The NSV 2017 workshop is dedicated to the development of logical and mathematical techniques for the reasoning about programmability and reliability

*Numerical Validation in Current Hardware Architectures* Annie A.M. Cuyt, Walter Krämer, Wolfram Luther, Peter Markstein, 2009-04-24 The major emphasis of the Dagstuhl Seminar on Numerical Validation in Current Hardware Architectures lay on numerical validation in

current hardware architectures and software environments The general idea was to bring together experts who are concerned with computer arithmetic in systems with actual processor architectures and scientists who develop use and need techniques from verified computation in their applications Topics of the seminar therefore included The ongoing revision of the IEEE 754 854 standard for floating point arithmetic Feasible ways to implement multiple precision multiword arithmetic and to compute the actual precision at run time according to the needs of input data The achievement of a similar behavior of fixed point floating point and interval arithmetic across language compliant implementations The design of robust and efficient numerical programs portable from diverse computers to those that adhere to the IEEE standard The development and propagation of validated special purpose software in different application areas Error analysis in several contexts Certification of numerical programs verification and validation assessment Computer arithmetic plays an important role at the hardware and software level when microprocessors embedded systems or grids are designed The reliability of numerical software strongly depends on the compliance with the corresponding floating point norms Standard CISC processors follow the 1985 IEEE norm 754 which is currently under revision but the new highly performing CELL processor is not fully IEEE compliant

Quality of Numerical Software Ronald F. Boisvert, 2016-01-09 Numerical software is central to our computerized society It is used to control aeroplanes and bridges operate manufacturing lines control power plants and refineries and analyse financial markets Such software must be accurate reliable robust efficient easy to use maintainable and adaptable Quality assessment and control of numerical software is still not well understood Although measurement is a key element it remains difficult to assess many components of software quality and to evaluate the trade offs between them Fortunately as numerical software is built upon a long established foundation of mathematical and computational knowledge there is great potential for dramatic breakthroughs This volume will address enabling techniques and tools such as benchmarks testing methodologies quality standards metrics and accuracy control mechanisms and their application to software for differential equations linear algebra data analysis as well as the evaluation of integrals derivatives and elementary and special functions

Software Verification Maria Christakis, Nadia Polikarpova, Parasara Sridhar Duggirala, Peter Schrammel, 2020-12-05 This book constitutes the refereed proceedings of the 12th International Conference on Verified Software VSTTE 2020 and the 13th International Workshop on Numerical Software Verification NSV 2020 held in Los Angeles CA USA in July 2020 Due to COVID 19 pandemic the conference was held virtually The 13 papers presented in this volume were carefully reviewed and selected from 21 submissions The papers describe large scale verification efforts that involve collaboration theory unification tool integration and formalized domain knowledge as well as novel experiments and case studies evaluating verification techniques and technologies The conference was co located with the 32nd International Conference on Computer Aided Verification CAV 2020

**Modeling, Design, and Simulation of Systems with Uncertainties** Andreas Rauh, Ekaterina Auer, 2011-06-06 To describe the true behavior of most real world systems with sufficient accuracy engineers have to

overcome difficulties arising from their lack of knowledge about certain parts of a process or from the impossibility of characterizing it with absolute certainty Depending on the application at hand uncertainties in modeling and measurements can be represented in different ways For example bounded uncertainties can be described by intervals affine forms or general polynomial enclosures such as Taylor models whereas stochastic uncertainties can be characterized in the form of a distribution described for example by the mean value the standard deviation and higher order moments The goal of this Special Volume on Modeling Design and Simulation of Systems with Uncertainties is to cover modern methods for dealing with the challenges presented by imprecise or unavailable information All contributions tackle the topic from the point of view of control state and parameter estimation optimization and simulation Thematically this volume can be divided into two parts In the first we present works highlighting the theoretic background and current research on algorithmic approaches in the field of uncertainty handling together with their reliable software implementation The second part is concerned with real life application scenarios from various areas including but not limited to mechatronics robotics and biomedical engineering

Computer Arithmetic and Validity Ulrich Kulisch, 2013-04-30 This is the revised and extended second edition of the successful basic book on computer arithmetic It is consistent with the newest recent standard developments in the field The book shows how the arithmetic and mathematical capability of the digital computer can be enhanced in a quite natural way The work is motivated by the desire and the need to improve the accuracy of numerical computing and to control the quality of the computed results validity The accuracy requirements for the elementary floating point operations are extended to the customary product spaces of computations including interval spaces The mathematical properties of these models are extracted into an axiomatic approach which leads to a general theory of computer arithmetic Detailed methods and circuits for the implementation of this advanced computer arithmetic on digital computers are developed in part two of the book Part three then illustrates by a number of sample applications how this extended computer arithmetic can be used to compute highly accurate and mathematically verified results The book can be used as a high level undergraduate textbook but also as reference work for research in computer arithmetic and applied mathematics

*Guide to Software Verification with Frama-C* Nikolai Kosmatov, Virgile Prevosto, Julien Signoles, 2024-07-09 Frama C is a popular open source toolset for analysis and verification of C programs largely used for teaching experimental research and industrial applications With the growing complexity and ubiquity of modern software there is increasing interest in code analysis tools at various levels of formalization to ensure safety and security of software products Acknowledging the fact that no single technique will ever be able to fit all software verification needs the Frama C platform features a wide set of plug ins that can be used or combined for solving specific verification tasks This guidebook presents a large panorama of basic usages research results and concrete applications of Frama C since the very first open source release of the platform in 2008 It covers the ACSL specification language core verification plug ins advanced analyses and their combinations key ingredients for developing

new plug ins as well as successful industrial case studies in which Frama C has helped engineers verify crucial safety or security properties

**Topics and features** Gentle example based introduction to software specification and verification Wide panorama of state of the art specification and analysis techniques Step by step guide to develop your own tailor made analysis on top of the platform Inspiring success stories of Frama C deployment on industrial code More than 15 years of R D on analysis and verification of C code This book is firmly rooted on the practice of software analysis with numerous examples exercises and application guidelines As such it is particularly well suited for software verification practitioners wishing to deploy verification on their code as well as for undergraduate students with little or no experience in code analysis techniques More advanced sections on the theoretical underpinnings of the analyzers will be of interest for graduate students and researchers

Nikolai Kosmatov is a Senior Researcher at Thales Research Technology France Virgile Prevosto is a Senior Researcher and Julien Signoles is a Research Director both at Universit Paris Saclay CEA List France

**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

**Reactor Physics: Methods and Applications** Tengfei Zhang,Ding She,Shripad T. Revankar,Jun Wang,Qian Zhang,2022-06-29

**Acta Numerica 2004: Volume 13** Arie Iserles,2004-06-03 An annual volume presenting substantive survey articles in numerical mathematics and scientific computing

**Collaborative Technologies and Data Science in Smart City Applications** Aram Hajian,Wolfram Luther,A. J. Han Vinck,2018-08-30 In September 2018 researchers from Armenia Chile Germany and Japan met in Yerevan to discuss technologies with applications in Smart Cities Data Science and Information Theoretic Approaches for Smart Systems Technical Challenges for Smart Environments and Smart Human Centered Computing This book presents their contributions

to the CODASSCA 2018 workshop on Collaborative Technologies and Data Science in Smart City Applications a cutting edge topic in Computer Science today      *Computer Simulation Validation* Claus Beisbart, Nicole J. Saam, 2019-04-09 This unique volume introduces and discusses the methods of validating computer simulations in scientific research The core concepts strategies and techniques of validation are explained by an international team of pre eminent authorities drawing on expertise from various fields ranging from engineering and the physical sciences to the social sciences and history The work also offers new and original philosophical perspectives on the validation of simulations Topics and features introduces the fundamental concepts and principles related to the validation of computer simulations and examines philosophical frameworks for thinking about validation provides an overview of the various strategies and techniques available for validating simulations as well as the preparatory steps that have to be taken prior to validation describes commonly used reference points and mathematical frameworks applicable to simulation validation reviews the legal prescriptions and the administrative and procedural activities related to simulation validation presents examples of best practice that demonstrate how methods of validation are applied in various disciplines and with different types of simulation models covers important practical challenges faced by simulation scientists when applying validation methods and techniques offers a selection of general philosophical reflections that explore the significance of validation from a broader perspective This truly interdisciplinary handbook will appeal to a broad audience from professional scientists spanning all natural and social sciences to young scholars new to research with computer simulations Philosophers of science and methodologists seeking to increase their understanding of simulation validation will also find much to benefit from in the text      Applied Mechanics Reviews ,2004      **Progress in Industrial Mathematics at ECMI 2008** Alistair D. Fitt, John Norbury, Hilary Ockendon, Eddie Wilson, 2010-07-23 The 15th European Conference on Mathematics for Industry was held in the agreeable surroundings of University College London just 5 minutes walk from the British Museum in the heart of London over the warm sunny days from 30 June to 4 July 2008 Participants from all over the world met with the common aim of reinforcing the role of mathematics as an overarching resource for industry and business The conference attracted over 300 participants from 30 countries most of them participating with either a contributed talk a mini symposium presentation or a plenary lecture Mathematics in Industry was interpreted in its widest sense as can be seen from the range of applications and techniques described in this volume We mention just two examples The Alan Taylor Lecture was given by Mario Primicerio on a problem arising from moving oil through pipelines when temperature variations affect the shearing properties of wax and thus modify the flow The Wacker Prize winner Master's student Lauri Harhanen from the Helsinki University of Technology showed how a novel piece of mathematics allowed new software to capture real time images of teeth from the data supplied by present day dental machinery see ECMI Newsletter 44 The meeting was attended by leading figures from government business and science who all shared the same aim to promote the application of innovative mathematics to industry and identify industrial sectors

that offer the most exciting opportunities for mathematicians to provide new insight and new ideas      *Computer Simulations in Science and Engineering* Juan Manuel Durán, 2018-09-20 This book addresses key conceptual issues relating to the modern scientific and engineering use of computer simulations It analyses a broad set of questions from the nature of computer simulations to their epistemological power including the many scientific social and ethics implications of using computer simulations The book is written in an easily accessible narrative one that weaves together philosophical questions and scientific technicalities It will thus appeal equally to all academic scientists engineers and researchers in industry interested in questions and conceivable answers related to the general practice of computer simulations      **Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures** George Deodatis, Bruce R. Ellingwood, Dan M. Frangopol, 2014-02-10 Safety Reliability Risk and Life Cycle Performance of Structures and Infrastructures contains the plenary lectures and papers presented at the 11th International Conference on STRUCTURAL SAFETY AND RELIABILITY ICOSAR2013 New York NY USA 16-20 June 2013 This set of a book of abstracts and searchable full paper USB device is must have literature for researchers and practitioners involved with safety reliability risk and life cycle performance of structures and infrastructures      Accuracy and Reliability in Scientific Computing Bo Einarsson, 2005-01-01 Numerical software is used to test scientific theories design airplanes and bridges operate manufacturing lines control power plants and refineries analyze financial derivatives identify genomes and provide the understanding necessary to derive and analyze cancer treatments Because of the high stakes involved it is essential that results computed using software be accurate reliable and robust Unfortunately developing accurate and reliable scientific software is notoriously difficult This book investigates some of the difficulties related to scientific computing and provides insight into how to overcome them and obtain dependable results The tools to assess existing scientific applications are described and a variety of techniques that can improve the accuracy and reliability of newly developed applications is discussed Accuracy and Reliability in Scientific Computing can be considered a handbook for improving the quality of scientific computing It will help computer scientists address the problems that affect software in general as well as the particular challenges of numerical computation approximations occurring at all levels continuous functions replaced by discretized versions infinite processes replaced by finite ones and real numbers replaced by finite precision numbers Divided into three parts it starts by illustrating some of the difficulties in producing robust and reliable scientific software Well known cases of failure are reviewed and the what and why of numerical computations are considered The second section describes diagnostic tools that can be used to assess the accuracy and reliability of existing scientific applications In the last section the authors describe a variety of techniques that can be employed to improve the accuracy and reliability of newly developed scientific applications The authors of the individual chapters are international experts many of them members of the IFIP Working Group on Numerical Software



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