

**René Alt  
Andreas Frommer  
R. Baker Kearfott  
Wolfram Luther (Eds.)**

LNCSE 2991

# **Numerical Software with Result Verification**

**International Dagstuhl Seminar  
Dagstuhl Castle, Germany, January 2003  
Revised Papers**



**Springer**

# Numerical Software With Result Verification

**Edgar Kaucher**



## **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 verification 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, 2004-03-12 This book constitutes the thoroughly refereed post proceedings of the Dagstuhl Seminar 03041 on Numerical Software with Result Verification held at Dagstuhl Castle Germany in January 2003. The 18 revised full papers presented were selected during two rounds of reviewing and improvements. The papers are organized in topical sections on languages software systems and tools new verification techniques based on interval arithmetic applications in science and engineering and novel approaches to verification.

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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

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