

# Lecture Notes in Computer Science

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## Mathematical Foundations of Software Development

Proceedings of the International Joint Conference  
on Theory and Practice of Software Development  
(TAPSOFT)

Berlin, March 1985

Volume 1:

Colloquium on Trees in Algebra and Programming  
(CAAP'85)

Edited by Hartmut Ehrig, Christiane Floyd,  
Maurice Nivat and James Thatcher



Springer-Verlag Berlin Heidelberg GmbH

# Mathematical Foundations Of Software Development

**Eiiti Wada**



## **Mathematical Foundations Of Software Development:**

Mathematical Foundations of Software Engineering Gerard O'Regan,2023-05-04 This textbook presents an introduction to the mathematical foundations of software engineering It presents the rich applications of mathematics in areas such as error correcting codes cryptography the safety and security critical fields the banking and insurance fields as well as traditional engineering applications Topics and features Addresses core mathematics for critical thinking and problem solving Discusses propositional and predicate logic and various proof techniques to demonstrate the correctness of a logical argument Examines number theory and its applications to cryptography Considers the underlying mathematics of error correcting codes Discusses graph theory and its applications to modelling networks Reviews tools to support software engineering mathematics including automated and interactive theorem provers and model checking Discusses financial software engineering including simple and compound interest probability and statistics and operations research Discusses software reliability and dependability and explains formal methods used to derive a program from its specification Discusses calculus matrices vectors complex numbers and quaternions as well as applications to graphics and robotics Includes key learning topics summaries and review questions in each chapter together with a useful glossary This practical and easy to follow textbook reference is ideal for computer science students seeking to learn how mathematics can assist them in building high quality and reliable software on time and on budget The text also serves as an excellent self study primer for software engineers quality professionals and software managers

Mathematical Foundations of Software Development Hartmut Ehrig,1985 **Mathematical Foundations of Software Development. Proceedings of the International Joint Conference on Theory and Practice of Software Development (TAPSOFT), Berlin, March 25-29, 1985** Hartmut Ehrig,Christiane Floyd,Maurice Nivat,James Thatcher,1985-03 Mathematical Foundations of Software Development. Proceedings of the International Joint Conference on Theory and Practice of Software Development (TAPSOFT), Berlin, March 25-29, 1985 Hartmut Ehrig,Christiane Floyd,Maurice Nivat,James Thatcher,1985-03-01 *Mathematical Foundations of Software Development* ,1985 **Mathematical Foundations of Software Development** Hartmut Ehrig,1985

**Mathematical Foundations of Software Development** Hartmut Ehrig,Christiane Floyd,Maurice Nivat, Software Engineering Foundations Yingxu Wang,2007-08-09 A groundbreaking book in this field Software Engineering Foundations A Software Science Perspective integrates the latest research methodologies and their applications into a unified theoretical framework Based on the author s 30 years of experience it examines a wide range of underlying theories from philosophy cognitive informatics denota **Foundations of Algebraic Specification and Formal Software Development** Donald Sannella,Andrzej Tarlecki,2012-01-05 This book provides foundations for software specification and formal software development from the perspective of work on algebraic specification concentrating on developing basic concepts and studying their fundamental properties These foundations are built on a solid mathematical basis using elements of universal

algebra category theory and logic and this mathematical toolbox provides a convenient language for precisely formulating the concepts involved in software specification and development Once formally defined these notions become subject to mathematical investigation and this interplay between mathematics and software engineering yields results that are mathematically interesting conceptually revealing and practically useful The theory presented by the authors has its origins in work on algebraic specifications that started in the early 1970s and their treatment is comprehensive This book contains five kinds of material the requisite mathematical foundations traditional algebraic specifications elements of the theory of institutions formal specification and development and proof methods While the book is self contained mathematical maturity and familiarity with the problems of software engineering is required and in the examples that directly relate to programming the authors assume acquaintance with the concepts of functional programming The book will be of value to researchers and advanced graduate students in the areas of programming and theoretical computer science     Software Engineering Processes Yingxu Wang, Graham King, 2000-04-21 Software engineering is playing an increasingly significant role in computing and informatics necessitated by the complexities inherent in large scale software development To deal with these difficulties the conventional life cycle approaches to software engineering are now giving way to the process system approach encompassing development me     *Software Engineering: Effective Teaching and Learning Approaches and Practices* Ellis, Heidi J.C., Demurjian, Steven A., Naveda, J. Fernando, 2008-10-31 Over the past decade software engineering has developed into a highly respected field Though computing and software engineering education continues to emerge as a prominent interest area of study few books specifically focus on software engineering education itself Software Engineering Effective Teaching and Learning Approaches and Practices presents the latest developments in software engineering education drawing contributions from over 20 software engineering educators from around the globe Encompassing areas such as student assessment and learning innovative teaching methods and educational technology this much needed book greatly enhances libraries with its unique research content     Cleanroom Software Engineering Stacy J. Prowell, Carmen J. Trammell, Richard C. Linger, Jesse H. Poore, 1999-03-09 Cleanroom software engineering is a process for developing and certifying high reliability software Combining theory based engineering technologies in project management incremental development software specification and design correctness verification and statistical quality certification the Cleanroom process answers today s call for more reliable software and provides methods for more cost effective software development Cleanroom originated with Harlan D Mills an IBM Fellow and a visionary in software engineering Written by colleagues of Mills and some of the most experienced developers and practitioners of Cleanroom Cleanroom Software Engineering provides a roadmap for software management development and testing as disciplined engineering practices This book serves both as an introduction for those new to Cleanroom and as a reference guide for the growing practitioner community Readers will discover a proven way to raise both quality and productivity in their software intensive products while reducing

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**RIMS Symposium on Software Science and Engineering II** Eiichi Goto, Keijiro Araki, Taiichi Yuasa, 1986 *Mathematics of Program Construction* Bernhard Möller, 1995-07-10 This volume constitutes the proceedings of the Third International Conference on the Mathematics of Program Construction held at Kloster Irsee Germany in July 1995 Besides five invited lectures by distinguished researchers there are presented 19 full revised papers selected from a total of 58 submissions The general theme is the use of crisp clear mathematics in the discovery and design of algorithms and in the development of corresponding software and hardware among the topics addressed are program transformation program analysis program verification as well as convincing case studies

**Logic Programming '86** Eiiti Wada, 1987-06-03 This volume contains the papers presented and subsequently submitted for publication at the 5th Logic Programming Conference held June 23-26 1986 in Tokyo Topics covered include Prolog machine architecture Prolog processors variations of Prolog language and applications of Prolog to natural language understanding and expert systems Most of the works reported in the volume are related to the Japanese Fifth Generation Computer Project allowing readers to compare results from this project with those from similar projects currently being conducted in other countries

**Mathematical Foundations of Computer Science 1991** Andrzej Tarlecki, 1991 This volume contains the proceedings of the 16th International Symposium on Mathematical Foundations of Computer Science MFCS 91 held in Kazimierz Dolny Poland September 9-13 1991 The series of MFCS symposia organized alternately in Poland and Czechoslovakia since 1972 has a long and well established tradition The purpose of the series is to encourage high quality research in all branches of theoretical computer science and to bring together specialists working actively in the area Principal areas of interest in this symposium include software specification and development parallel and distributed computing logic and semantics of programs algorithms automata and formal languages complexity and computability theory and others The volume contains 5 invited papers by distinguished scientists and 38 contributions selected from a total of 109 submitted papers

**Logic Programming '85** Eiiti Wada, 1986-05 *Database Machine Performance: Modeling Methodologies and Evaluation Strategies* Francesca Cesarini, Silvio Salza, 1987-06-24 This book is focused on the performance evaluation of database machines i.e. special purpose architectures specifically meant to improve the efficiency of database applications The topic is of primary interest because of the need to compare these systems among themselves and with traditional database management systems The book gathers the experience of several European research groups in modeling and analyzing the database machine architectures they have proposed It deals both with the main methodological issues and with the detailed analysis of some relevant problems It also includes an extensive annotated bibliography with

more than one hundred references and several keys for the access to the literature      *Mathematical Foundations of Computer Science 1988* Michal Chytil, Ladislav Janiga, Václav Koubek, 1988 This volume contains 11 invited lectures and 42 communications presented at the 13th Conference on Mathematical Foundations of Computer Science MFCS 88 held at Carlsbad Czechoslovakia August 29 September 2 1988 Most of the papers present material from the following four fields complexity theory in particular structural complexity concurrency and parallelism formal language theory semantics Other areas treated in the proceedings include functional programming inductive syntactical synthesis unification algorithms relational databases and incremental attribute evaluation      **Mathematical Foundations of Computer Science 1993**

Andrzej M. Borzyszkowski, Stefan Sokolowski, 1993-08-18 This volume contains the proceedings of the 18th International Symposium on Mathematical Foundations of Computer Science MFCS 93 held in Gdansk Poland August September 1993 The MFCS symposia organized annually in Poland and the former Czechoslovakia since 1972 have a long and well established tradition Over the years they have served as a meeting ground for specialists from all branches of theoretical computer science in particular algorithms and complexity automata theory and theory of languages concurrent distributed and real time systems the theory of functional logic and object oriented programming lambda calculus and type theory semantics and logics of programs and others The volume contains 12 invited lectures and 56 contributed papers selected from 133 submissions

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web nu graduates the university boosts of its alumni who have been blessed to occupy so many key positions across the globe the graduates from nu are equipped with values of competence creativity confidence and character which have supported them to perform excellently in their work places

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web for convenience tuition fees are calculated per year tuition fees at nu are different for locals and foreigners uganda citizens pay 1 usd per year while international students pay a minimum of 5 000 usd check the university website for up to date information on prices and scholarships

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