



CONVERSATIONS

Formalism & Intuition in Software Development

Michael A. Jackson

Edgar G. Daylight

Kurt De Grave (Ed.)

Formalism Intuition In Software Development

**Hartmut Ehrig, Christiane
Floyd, Maurice Nivat, James Thatcher**



Formalism Intuition In Software Development:

Formalism & Intuition in Software Development Michael A. Jackson, Edgar G. Daylight, 2015-08-17 A conversation with Michael A Jackson conducted by Edgar G Daylight and Bas van Vlijmen on March 8th 2013 in Amsterdam the Netherlands and by Edgar G Daylight on July 22nd 2013 in London England Edited by Kurt De Grave **Perspectives on the Future of Software Engineering** Jürgen Münch, Klaus Schmid, 2013-06-13 The dependence on quality software in all areas of life is what makes software engineering a key discipline for today's society Thus over the last few decades it has been increasingly recognized that it is particularly important to demonstrate the value of software engineering methods in real world environments a task which is the focus of empirical software engineering One of the leading protagonists of this discipline worldwide is Prof Dr h c Dieter Rombach who dedicated his entire career to empirical software engineering For his many important contributions to the field he has received numerous awards and recognitions including the U S National Science Foundation's Presidential Young Investigator Award and the Cross of the Order of Merit of the Federal Republic of Germany He is a Fellow of both the ACM and the IEEE Computer Society This book published in honor of his 60th birthday is dedicated to Dieter Rombach and his contributions to software engineering in general as well as to empirical software engineering in particular This book presents invited contributions from a number of the most internationally renowned software engineering researchers like Victor Basili Barry Boehm Manfred Broy Carlo Ghezzi Michael Jackson Leon Osterweil and of course by Dieter Rombach himself Several key experts from the Fraunhofer IESE the institute founded and led by Dieter Rombach also contributed to the book The contributions summarize some of the most important trends in software engineering today and outline a vision for the future of the field The book is structured into three main parts The first part focuses on the classical foundations of software engineering such as notations architecture and processes while the second addresses empirical software engineering in particular as the core field of Dieter Rombach's contributions Finally the third part discusses a broad vision for the future of software engineering **The Science of Functional Programming (draft version)** Sergei Winitzki, Mathematical Structures for Software Engineering Bernard De Neumann, Dan Simpson, Gil Slater, 1991 This volume is concerned with the application of formal mathematical methods in software engineering As the design writing and testing of software becomes a major sector of economic activity the need for rigorous techniques has also grown The papers in this book are devoted to various mathematical structures which find use in aspects of software design and they cover topics such as the formal specification of systems the design of communications software and concurrent processing All the contributors are experts in their respective fields As a result this collection provides a timely survey of this rapidly growing area Software engineers and computer scientists will find this work to be an invaluable reference source Mathematicians will appreciate the discussions of the contribution that their discipline can make and the interesting challenges for the future **Formal Techniques in Real-Time and Fault-Tolerant Systems** Anders P. Ravn, Hans

Rischel,1998-09-02 This book constitutes the refereed proceedings of the 5th International Symposium on Formal Techniques in Real Time and Fault Tolerant Systems FTRTFT 98 held in Lyngby Denmark in September 1998 The 22 revised full papers presented were carefully selected and reviewed for inclusion in the book Also included are four invited contributions and five tool demonstrations The papers address the current aspects of the hot topic of embedded systems in particular temporal logic requirements engineering analysis techniques verification model checking and applications **Handbook of Software Engineering** Sungdeok Cha,Richard N. Taylor,Kyochul Kang,2019-02-11 This handbook provides a unique and in depth survey of the current state of the art in software engineering covering its major topics the conceptual genealogy of each subfield and discussing future research directions Subjects include foundational areas of software engineering e g software processes requirements engineering software architecture software testing formal methods software maintenance as well as emerging areas e g self adaptive systems software engineering in the cloud coordination technology Each chapter includes an introduction to central concepts and principles a guided tour of seminal papers and key contributions and promising future research directions The authors of the individual chapters are all acknowledged experts in their field and include many who have pioneered the techniques and technologies discussed Readers will find an authoritative and concise review of each subject and will also learn how software engineering technologies have evolved and are likely to develop in the years to come This book will be especially useful for researchers who are new to software engineering and for practitioners seeking to enhance their skills and knowledge **Formal Methods and 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 **Formal Methods and Software Development** Hartmut Ehrig,1985 Development and Maintenance of Large Software Systems Antonio Pizzarello,1984 Operational Semantics for Timed Systems Heinrich Rust,2005-03-31 This monograph is dedicated to a novel approach for uniform modelling of timed and hybrid systems Heinrich Rust presents a time model which allows for both the description of discrete time steps and continuous processes with a dense real number time model The proposed time model is well suited to express synchronicity of events in a real number time model as well as strict causality by using uniform discrete time steps Thus it integrates and reconciles two views of time that are commonly used separately in different application domains In many discrete systems time is modelled by discrete steps of uniform length in continuous systems time is seen as a dense flow The main idea to integrate these different views is a discretization of the dense real number time structure by using constant infinitesimal time steps within each real number point in time The underlying mathematical structure of this time model is based on concepts of Non standard Analysis as proposed by Abraham Robinson in the 1950s The discrete modelling i e the description of sequential discrete algorithms at different abstraction levels is done with Abstract State Machines along the formalisms developed by Yuri Gurevich and temporal logic These ingredients produce a rich formal basis for describing a large

variety of systems with quantitative linear time properties by seamless integration refinement and embedding of continuous and discrete models into one uniform semantic framework called Non standard Timed Abstract State Machines NTASM

Software Engineering and Modula-2 Gustav Pomberger,1984 **The C++ Report** ,2000 **Science and Engineering for Software Development** IEEE Computer Society,1999 Contains five papers and an invited talk from a May 1999 colloquium acknowledging the contributions of Dr Harlan Mills to the theory and practice of software engineering and widespread applications to the emerging challenges in software engineering Subjects include coupling and strength developin Software Development and Management for Microprocessor-based Systems Tomlinson G. Rauscher,Linda M. Ott,1987 *Formal Development of Programs and Proofs* Edsger W. Dijkstra,1990 In 1987 The University of Texas at Austin sponsored the Year of Programming which consisted of six institutes on selected topics in computer programming Leading scientists and practitioners were invited from around the world for lectures and tutorials for discussion and collaboration The general objectives of these institutes were to advance the art and science of programming and to disseminate the best of what is known about programming theory and practice **Proceedings of the Third IEEE International Symposium on Requirements Engineering, January 6-10, 1997, Annapolis, Maryland, USA** ,1997 **Software Engineering Environments** Keith H. Bennett,1989 Recent Trends in Algebraic Development Techniques ,1999 **Government Data Systems** ,1983 **Hawaii International Conference on System Sciences, 23rd** IEEE Computer Society Press,Training Publications Limited,1990

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