

S. Prehn W. J. Toetenel (Eds.)

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Formal Software Development
Methods**

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Volume 2: Tutorials



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Vdm 91 Formal Software Development Metho

Mark Levene



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KORSO: Methods, Languages, and Tools for the Construction of Correct Software Manfred Broy, Stefan Jähnichen, 1995-11-08 This book constitutes the final report of the work carried out in the project KORSO Korrekte Software funded by the German Federal Ministry for Research and Technology KORSO is an evolutionary prototype oriented project aimed at improving the theoretical foundations of quality driven software engineering and at implementing known techniques for applications of practical relevance The 21 strictly refereed papers presented are organized in five sections on methods for correctness languages development systems and logical frameworks tools and case studies In addition the preface and introductory paper give valuable background information and a concise state of the art overview

Specification of Software Systems Vangalur S. Alagar, K. Periyasamy, 1998 This book provides an introduction to program specification illustrating the advantages it confers upon the software development process Covering all three major specification languages Larch VDM and Z the book discusses specification in general the abstraction process the mathematical tools required the main formal methods as well as examples of their use VDM '91, 1991

Semantics of Specification Languages (SoSL) Derek J. Andrews, Jan F. Groote, C.A. Middelburg, 2012-12-06 SoSL was the first International Workshop on Semantics of Specification Languages held from 25-27 October 1993 in Utrecht the Netherlands The workshop was organized by the Department of Philosophy of Utrecht University with financial support from the Nationale Faciliteit Informatica of the Nederlandse Organisatie voor Wetenschappelijk Onderzoek NWO and under the auspices of the British Computer Society S specialist group in Formal Aspects of Computing Science BCS FACS The concern of the workshop was the semantics of specification languages and the issues closely related to this area such as type checking and the justification of proof rules and proof obligations Its aim was the exchange of problems and ideas in this field of formal methods and the identification of common programs of work for further investigation The program of SoSL consisted of 3 invited lectures presenting the developments of the semantics of 3 major specification languages Furthermore there were 16 presentations of submitted papers This volume provides a direct account of the workshop It contains 3 papers that match the invited lectures and the 16 selected papers The editors want to thank all those who have contributed to the workshop the Program Committee and the referees for selecting the contributed papers the invited speakers for their

interesting talks the Organizing Committee for all their efforts and of course the participants We have the feeling that the workshop was worthwhile and should be repeated

Conclog: A Methodological Approach to Concurrent Logic Programming Jean-Marie Jacquet, 1991-11-27 This book presents a new concurrent logic programming language called Conclog and a methodology for programming in it Conclog was designed by taking the ideal features of logic programming as reference rather than by concentrating directly on operational tricks to ensure efficiency This leads to quite easy declarative programming Concern for soundness and completeness ensures that multi directional and multi solution correct procedures can be coded quite straightforwardly Assuming suitable hypotheses on their uses they can be transformed into very efficient versions thanks to the introduction of appropriate control information Correctness preserving properties are given for that purpose The design of Conclog involves three steps First a sound and complete parallel execution model of Horn clause programs is proposed which reduces subgoals of conjunctions independently and uses a calculus for reconciling inconsistent bindings Second this is extended to handle negation as completely as possible Third a minimal and reasonably complete set of extra logical features are defined for optimization and practical purposes The second part of the book presents a methodology for constructing Conclog in a rigorous way This covers the entire programming process from informal specifications via logic descriptions to efficient programs The methodology can be adapted to other languages

ECOOP '92. European Conference on Object-Oriented Programming Ole Lehrmann Madsen, 1992-06-16 This volume constitutes the proceedings of the sixth European Conference on Object Oriented Programming ECOOP held in Utrecht The Netherlands June 29 July 3 1992 Since the French initiative to organize the first conference in Paris ECOOP has been a very successful forum for discussing the state of the art of object orientation ECOOP has been able to attract papers of a high scientific quality as well as high quality experience papers describing the pros and cons of using object orientation in practice This duality between theory and practice within object orientation makes a good example of experimental computer science The volume contains 24 papers including two invited papers and 22 papers selected by the programme committee from 124 submissions Each submitted paper was reviewed by 3 4 people and the selection of papers was based only on the quality of the papers themselves

Mathematical Foundations of Programming Semantics Stephen D. Brookes, 1992 This volume contains the proceedings of the Seventh International Conference on the Mathematical Foundations of Programming Semantics held at Carnegie Mellon University March 1991 The conference continued a series of annual meetings alternating between workshop and conference formats intended to bring together computer scientists and mathematicians for discussion of research problems results and directions in programming language semantics and related areas A major goal of the series is to improve communication and interaction between researchers in these areas and to establish ties between related areas of research The volume contains revised and refereed versions of each of the contributed papers and refereed papers by three invited speakers Jon Barwise John Reynolds and Mitchell Wand PUBLISHER S WEBSITE VDM '91. Formal Software

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CONCUR '95 Concurrency Theory Insup Lee, 1995-09-09 This book constitutes the proceedings of the 6th International Conference on Concurrency Theory CONCUR 95 held in Philadelphia Pennsylvania in August 1995 The volume presents seven invited contributions by outstanding researchers and 33 refereed full research papers selected by the program committee out of a total of 91 submissions The collection of articles gives a representative overview on what happened in this area of research since the last CONCUR conference took place There are sections on model checking mobile processes process theory true concurrency process algebra probabilistic automata real time systems testing semantics decidability results refinement theory and linear time logics

The Nested Universal Relation Database Model Mark Levene, 1992-05-20 This monograph describes a method of data modelling whose basic aim is to make databases easier to use by providing them with logical data independence To achieve this the nested UR universal relation model is defined by extending the classical UR model to nested relations Nested relations generalize flat relations and allow hierarchically structured objects to be modelled directly whereas the classical UR model allows the user to view the database as if it were composed of a single flat relation The author presents a comprehensive formalisation of the nested relational model which incorporated null values into the model Functional data dependencies and the classical notion of lossless decomposition are extended to nested relations and an extended chase procedure is defined to test the satisfaction of the data dependencies The nested UR model is defined and the classical UR model is shown to be a special case of the nested model This implies that an UR interface can be implemented by using the nested UR model thus gaining the full advantages of nested relations over flat relations

Conference Record ,1993 **FM ... Formal Methods** ,1999 **Automata, Languages and Programming** ,1992
FME ... ,1993 *Software Architecture* Mary Shaw, David Garlan, 1996 Introduction Architectural styles Case studies

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