



Michel Schellekens

A Modular Calculus for the Average Cost of Data Structuring

Forewords by
Greg Bollella and Dana Scott

 Springer

A Modular Calculus For The Average Cost Of Data Structuring

Marko van Eekelen, Ugo Dal Lago



A Modular Calculus For The Average Cost Of Data Structuring:

A Modular Calculus for the Average Cost of Data Structuring Michel Schellekens, 2008-06-17 A Modular Calculus for the Average Cost of Data Structuring introduces MOQA a new domain specific programming language which guarantees the average case time analysis of its programs to be modular Time in this context refers to a broad notion of cost which can be used to estimate the actual running time but also other quantitative information such as power consumption while modularity means that the average time of a program can be easily computed from the times of its constituents something that no programming language of this scope has been able to guarantee so far MOQA principles can be incorporated in any standard programming language MOQA supports tracking of data and their distributions throughout computations based on the notion of random bag preservation This allows a unified approach to average case time analysis and resolves fundamental bottleneck problems in the area The main techniques are illustrated in an accompanying Flash tutorial where the visual nature of this method can provide new teaching ideas for algorithms courses This volume with forewords by Greg Bollella and Dana Scott presents novel programs based on the new advances in this area including the first randomness preserving version of Heapsort Programs are provided along with derivations of their average case time to illustrate the radically different approach to average case timing The automated static timing tool applies the Modular Calculus to extract the average case running time of programs directly from their MOQA code A Modular Calculus for the Average Cost of Data Structuring is designed for a professional audience composed of researchers and practitioners in industry with an interest in algorithmic analysis and also static timing and power analysis areas of growing importance It is also suitable as an advanced level text or reference book for students in computer science electrical engineering and mathematics Michel Schellekens obtained his PhD from Carnegie Mellon University following which he worked as a Marie Curie Fellow at Imperial College London Currently he is an Associate Professor at the Department of Computer Science in University College Cork National University of Ireland Cork where he leads the Centre for Efficiency Oriented Languages CEOL as a Science Foundation Ireland Principal Investigator

Types for Proofs and Programs Stefano Berardi, Ferruccio Damiani, Ugo de Liguoro, 2009-06-07 These proceedings contain a selection of refereed papers presented at or later to the Annual Workshop of the TYPES project EU coordination action 510996 which was held during March 26-29 2008 in Turin Italy The topic of this workshop and of all previous workshops of the same project was formal reasoning and computer programming based on type theory languages and computerized tools for reasoning and applications in several domains such as analysis of programming languages certified software mobile code formalization of mathematics mathematics education The workshop was attended by more than 100 researchers and included more than 40 presentations We also had three invited lectures from Asperti University of Bologna G Dowek LIX Ecole polytechnique France and J W Klop Vrije Universiteit Amsterdam The Netherlands From 27 submitted papers 19 were selected after a reviewing process Each submitted paper was reviewed by three referees

the nal decisions were made by the editors This workshop is the last of a series of meetings of the TYPES working group funded by the European Union IST project 29001 ESPRIT Working Group 21900 ESPRIT BRA 6435 **Computer Safety, Reliability, and Security** Frank Ortmeier, Peter Daniel, 2012-09-11 This book constitutes the refereed proceedings of 5 workshops co located with SAFECOMP 2012 the 31st International Conference on Computer Safety Reliability and Security held in Magdeburg Germany in September 2012 The 49 revised full papers presented were carefully reviewed and selected from numerous submissions According to the workshops covered the papers are organized in topical sections on next generation of system assurance approaches for safety critical systems Sassur architecting safety in collaborative mobile systems ASCoMS dependable and secure computing for large scale complex critical infrastructures DESEC4LCCI ERCIM EWICS cyberphysical systems ERCIM EWICS and on digital engineering IWDE *Reversible Computation* Robert Glück, Tetsuo Yokoyama, 2013-01-16 This book constitutes the refereed proceedings of the 4th International Workshop on Reversible Computation RC 2012 held in Copenhagen Denmark in July 2012 The 19 contributions presented in this volume were carefully reviewed and selected from 46 submissions The papers cover theoretical considerations reversible software and reversible hardware and physical realizations and applications in quantum computing **Foundational and Practical Aspects of Resource Analysis** Marko van Eekelen, Ugo Dal Lago, 2016-09-24 This book constitutes the proceedings of the 4th International Workshop on Foundational and Practical Aspects of Resource Analysis FOPARA 2015 held in London UK in April 2015 The 6 papers presented in this volume were carefully reviewed and selected from 7 submissions **Scientific and Technical Aerospace Reports** , 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *Conference Publication* , 1990 Energy Research Abstracts , 1980 *NBS Special Publication* , 1968 Catalogs of Courses University of California, Berkeley, 1981 Includes general and summer catalogs issued between 1878 1879 and 1995 1997

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In a digitally-driven world where screens reign great and instant interaction drowns out the subtleties of language, the profound techniques and mental subtleties hidden within words often move unheard. However, situated within the pages of **A Modular Calculus For The Average Cost Of Data Structuring** a interesting literary treasure pulsing with fresh emotions, lies an exceptional quest waiting to be undertaken. Penned by an experienced wordsmith, that enchanting opus attracts readers on an introspective journey, gently unraveling the veiled truths and profound affect resonating within the fabric of every word. Within the mental depths of this touching review, we can embark upon a heartfelt exploration of the book is key subjects, dissect their captivating writing design, and succumb to the effective resonance it evokes serious within the recesses of readers hearts.

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