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Masahito Hasegawa

Models of Sharing Graphs

*A Categorical Semantics
of let and letrec*



Springer

Models Of Sharing Graphs A Categorical Semantics Of Let And Letrec

Katrin Zwirgmaier



Models Of Sharing Graphs A Categorical Semantics Of Let And Letrec:

Models of Sharing Graphs Masahito Hasegawa, 2012-12-06 Models of Sharing Graphs presents a sound mathematical basis for reasoning about models of computation involving shared resources including graph rewriting systems denotational semantics and concurrency theory An algebraic approach based on the language of category theory is taken throughout this work which enables the author to describe several aspects of the notion of sharing in a systematic way In particular a novel account of recursive computation created from cyclic sharing is developed using this framework [Foundations of Software Science and Computation Structures](#)

Andrew Pitts, 2015-03-31 This book constitutes the proceedings of the 18th International Conference on Foundations of Software Science and Computation Structures FOSSACS 2015 held in London UK in April 2015 as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2015 The 28 full papers presented in this volume were carefully reviewed and selected from 93 submissions They are organized in topical sections named semantics of programming languages categorical models and logics concurrent probabilistic and timed systems automata games verification logical aspects of computational complexity and type theory proof theory and implicit computational complexity The book also contains one full paper invited talk **FST TCS 2000: Foundations of Software Technology and Theoretical Science**

Sanjiv Kapoor, Sanjiva Prasad, 2003-06-26 This book constitutes the refereed proceedings of the 20th international Conference on Foundations of Software Technology and Theoretical Computer Science FST TCS 2000 held in New Delhi India in December 2000 The 36 revised full papers presented were carefully reviewed and selected from a total of 141 submissions also included are six invited papers The volume provides broad coverage of the logical and mathematical foundations of computer science and spans the whole range of theoretical computer science

[Theoretical Aspects of Computer Software](#) Martin Abadi, Takayasu Ito, 1997-08-27 Content Description Includes bibliographical references and index **Network Algebra** Gheorghe Stefanescu, 2012-12-06 Network Algebra considers the algebraic study of networks and their behaviour It contains general results on the algebraic theory of networks recent results on the algebraic theory of models for parallel programs as well as results on the algebraic theory of classical control structures The results are presented in a unified framework of the calculus of flownomials leading to a sound understanding of the algebraic fundamentals of the network theory The term network is used in a broad sense within this book as consisting of a collection of interconnecting cells and two radically different specific interpretations of this notion of networks are studied One interpretation is additive when only one cell is active at a given time this covers the classical models of control specified by finite automata or flowchart schemes The second interpretation is multiplicative where each cell is always active covering models for parallel computation such as Petri nets or dataflow networks More advanced settings mixing the two interpretations are included as well Network Algebra will be of interest to anyone interested in network theory or its applications and provides them with the results needed to put their work on a firm basis Graduate students will also find the

material within this book useful for their studies Typed Lambda Calculi and Applications Martin Hofmann, 2003-05-27 The refereed proceedings of the 6th International Conference on Typed Lambda Calculi and Applications TLCA 2003 held in Valencia Spain in June 2003 The 21 revised full papers presented were carefully reviewed and selected from 40 submissions The volume reports research results on all current aspects of typed lambda calculi ranging from theoretical and methodological issues to the application of proof assistants Categories and Types in Logic, Language, and Physics Claudia Casadio, Bob Coecke, Michael Moortgat, Philip Scott, 2014-04-03 For more than 60 years Jim Lambek has been a profoundly inspirational mathematician with groundbreaking contributions to algebra category theory linguistics theoretical physics logic and proof theory This Festschrift was put together on the occasion of his 90th birthday The papers in it give a good picture of the multiple research areas where the impact of Jim Lambek's work can be felt The volume includes contributions by prominent researchers and by their students showing how Jim Lambek's ideas keep inspiring upcoming generations of scholars **Foundations of Software Science and Computation Structures** Christel Baier, Ugo Dal Lago, 2018-04-14 This book constitutes the proceedings of the 21st International Conference on Foundations of Software Science and Computational Structures FOSSACS 2018 which took place in Thessaloniki Greece in April 2018 held as part of the European Joint Conference on Theory and Practice of Software ETAPS 2018 The 31 papers presented in this volume were carefully reviewed and selected from 103 submissions The papers are organized in topical sections named semantics linearity concurrency lambda calculi and types category theory and quantum control quantitative models logics and equational theories and graphs and automata *Computer Science Logic* Mogens Nielsen, 1998-05-20 This book constitutes the strictly refereed post workshop proceedings of the 11th International Workshop on Computer Science Logic CSL 97 held as the 1997 Annual Conference of the European Association on Computer Science Logic EACSL in Aarhus Denmark in August 1997 The volume presents 26 revised full papers selected after two rounds of refereeing from initially 92 submissions also included are four invited papers The book addresses all current aspects of computer science logics and its applications and thus presents the state of the art in the area **Typed Lambda Calculi and Applications** Pierre-Louis Curien, 2009-06-29 This book constitutes the refereed proceedings of the 9th International Conference on Typed Lambda Calculi and Applications TLCA 2009 held in Brasilia Brazil in July 2008 in conjunction with RTA 2007 the 19th International Conference on Rewriting Techniques and Applications as part of RDP 2009 the 5th International Conference on Rewriting Deduction and Programming The 27 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 53 submissions The papers present original research results that are broadly relevant to the theory and applications of typed calculi and address a wide variety of topics such as proof theory semantics implementation types and programming **Graph Transformation** Jörg Endrullis, Matthias Tichy, 2025-06-12 This book constitutes the refereed proceedings of the 18th International Conference on Graph Transformation ICGT 2025 held in Koblenz Germany during June 11 12 2025 The 10 full

papers and 1 short paper included in this book were carefully reviewed and selected from 19 submissions. The topics of the accepted papers cover a wide spectrum ranging from advancements in the classical theory of graph transformation to the integration of artificial intelligence approaches with graph transformations, the fuzzing of graph databases and applications of graph transformation in areas such as dialogue management systems and threat analysis.

Foundations of Software Science and Computation Structures Furio Honsell, Marino Miculan, 2007-12-03 ETAPS 2001 was the fourth instance of the European Joint Conferences on Theory and Practice of Software. ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences. This year it comprised five conferences: FOSSACS, FASE, ESOP, CC, TACAS, ten satellite workshops, CMCS, ETI Day, JOSES, LDFA, MMAABS, PFM, ReMiS, UNIGRA, WADT, WTUML, seven invited lectures, a debate, and ten tutorials. The events that comprise ETAPS address various aspects of the system development process, including specification, design, implementation, analysis, and improvement. The languages, methodologies, and tools which support these activities are all well within its scope. Different blends of theory and practice are represented with an inclination towards theory with a practical motivation on one hand and soundly based practice on the other. Many of the issues involved in software design apply to systems in general, including hardware systems, and the emphasis on software is not intended to be exclusive.

Functional and Logic Programming Tom Schrijvers, Peter Thiemann, 2012-05-20 This book constitutes the refereed proceedings of the 11th International Symposium on Functional and Logic Programming, FLOPS 2012, held in Kobe, Japan, in May 2012. The 19 research papers and 3 system demonstrations presented in this volume were carefully reviewed and selected from 39 submissions. They deal with declarative programming, including functional programming and logic programming.

Programming Languages and Systems Kazunori Ueda, 2010-11-19 The 23 papers presented together with 4 invited papers, 2 system and tool presentations, and 1 tutorial lecture were carefully reviewed and selected from 95 initial submissions. The papers are devoted to both foundational and practical issues in programming languages and systems and feature current research in the following areas: semantics, logics, foundational theory, design of languages and foundational calculi, type systems, compilers, interpreters, abstract machines, program derivation, analysis, transformation, software security, safety, verification, concurrency, constraints, domain specific languages, as well as tools for programming verification and implementation.

Formal Logical Methods for System Security and Correctness Orna Grumberg, Tobias Nipkow, Christian Pfaller, 2008 Offers information in the field of proof technology in connection with secure and correct software. This title shows that methods of correct-by-construction program and process synthesis allow a high level programming method more amenable to security and reliability analysis and guarantees.

CONCUR 2000 - Concurrency Theory Catuscia Palamidessi, 2003-06-26 This volume contains the proceedings of the 11th International Conference on Concurrency Theory, CONCUR 2000, held in State College, Pennsylvania, USA, during 22-25 August 2000. The purpose of the CONCUR conferences is to bring together researchers, developers, and students in order to advance the theory

of concurrency and promote its applications Interest in this topic is continuously growing as a consequence of the importance and ubiquity of concurrent systems and their applications and of the scientific relevance of their foundations The scope covers all areas of semantics logics and verification techniques for concurrent systems Topics include concurrency related aspects of models of computation semantic domains process algebras Petri nets event structures real time systems hybrid systems decidability model checking verification techniques refinement techniques term and graph rewriting distributed programming logic constraint programming object oriented programming typing systems and algorithms case studies tools and environments for programming and verification The first two CONCUR conferences were held in Amsterdam NL in 1990 and 1991 The following ones in Stony Brook USA Hildesheim D Uppsala S Philadelphia USA Pisa I Warsaw PL Nice F and Eindhoven NL The proceedings have appeared in Springer LNCS as Volumes 458 527 630 715 836 962 1119 1243 1466 and 1664 Automata, Languages and Programming Luca Aceto, Ivan Damgaard, Leslie Ann Goldberg, Magnus M.

Halldorsson, Anna Ingolfsdottir, Igor Walukiewicz, 2008-06-24 ICALP 2008 the 35th edition of the International Colloquium on Automata Languages and Programming was held in Reykjavik Iceland July 7-11 2008 ICALP is a series of annual conferences of the European Association for Theoretical Computer Science EATCS which first took place in 1972 This year the ICALP program consisted of the established Track A focusing on algorithms automata complexity and games and Track B focusing on logic semantics and theory of programming and of the recently introduced Track C focusing on security and cryptography foundations In response to the call for papers the Program Committees received 477 submissions the highest ever 269 for Track A 122 for Track B and 86 for Track C Out of these 126 papers were selected for inclusion in the scientific program 70 papers for Track A 32 for Track B and 24 for Track C The selection was made by the Program Committees based on originality quality and relevance to theoretical computer science The quality of the manuscripts was very high indeed and many deserving papers could not be selected ICALP 2008 consisted of five invited lectures and the contributed papers

Mathematical Theory of Programs 2010-10 Programming Languages and Systems Hongseok

Yang, 2011-11-18 This book constitutes the refereed proceedings of the 9th Asian Symposium on Programming Languages and Systems APLAS 2011 held in Kenting Taiwan in December 2011 The 22 revised full papers presented together with 4 invited talks and one system and tool presentations were carefully reviewed and selected from 64 submissions The papers are organized in topical sections on program analysis functional programming compiler concurrency semantics as well as certification and logic

New Structures for Physics Bob Coecke, 2011-01-15 This volume provides a series of tutorials on mathematical structures which recently have gained prominence in physics ranging from quantum foundations via quantum information to quantum gravity These include the theory of monoidal categories and corresponding graphical calculi Girard's linear logic Scott domains lambda calculus and corresponding logics for typing topos theory and more general process structures Most of these structures are very prominent in computer science the chapters here are tailored towards an

audience of physicists

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web a the directions of wave propagation of the e field and of b field are all mutually perpendicular b the speed of the electromagnetic wave is the speed of light c $1/\epsilon_0\mu_0$ independent of frequency c the ratio of electric and magnetic field amplitudes is e

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