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Categories And Computer Science Cambridge Computer Science Texts

Bart Jacobs



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Categories and Computer Science R. F. C. Walters, Richard F. Walters, 1991 Category theory has become increasingly important and popular in computer science and many universities now have introductions to category theory as part of their courses for undergraduate computer scientists The author is a respected category theorist and has based this textbook on a course given over the last few years at the University of Sydney The theory is developed in a straightforward way and is enriched with many examples from computer science Thus this book meets the needs of undergraduate computer scientists and yet retains a level of mathematical correctness that will broaden its appeal to include students of mathematics new to category theory Categories and Computer Science Richard F. Walters, 1991 **Categorical Logic and Type Theory** B. Jacobs, 2001-05-10 This book is an attempt to give a systematic presentation of both logic and type theory from a categorical perspective using the unifying concept of fibred category Its intended audience consists of logicians type theorists category theorists and theoretical computer scientists **Theory And Formal Methods Of Computing 94: Proceedings Of The Second Imperial College Workshop** Chris Hankin, I Mackie, Rajagopal Nagarajan, 1995-10-17 The focus of this workshop was the development of mathematically based techniques of formal specification of system behaviour and the systematic development of implementations The aim is to produce correct efficient implementations in a reliable fashion Topics covered at the workshop include category theory logic domain theory semantics concurrency specification and verification The papers published here range from the purely theoretical to practical applications **Categories and Computer Sciences** R. F. C. Walters, 1992 Generic Programming Roland Backhouse, Jeremy Gibbons, 2003-11-25 Generic programming attempts to make programming more efficient by making it more general This book is devoted to a novel form of genericity in programs based on parameterizing programs by the structure of the data they manipulate The book presents the following four revised and extended chapters first given as lectures at the Generic Programming Summer School held at the University of Oxford UK in August 2002 Generic Haskell Practice and Theory Generic Haskell Applications Generic Properties of Datatypes Basic Category Theory for Models of Syntax **Samson Abramsky on Logic and Structure in Computer Science and Beyond** Alessandra Palmigiano, Mehrnoosh Sadrzadeh, 2023-08-01 Samson Abramsky s wide ranging contributions to logical and structural aspects of Computer Science have had a major influence on the field This book is a rich collection of papers inspired by and extending Abramsky s work It contains both survey material and new results organised around six major themes domains and duality game semantics contextuality and quantum computation comonads and descriptive complexity categorical and logical semantics and probabilistic computation These relate to different stages and aspects of Abramsky s work reflecting its exceptionally broad scope and his ability to illuminate and unify diverse topics Chapters in the volume include a review of his entire body of work spanning from philosophical aspects to logic programming language theory quantum theory economics and psychology and relating it to a theory of unification of sciences using dual adjunctions The

section on game semantics shows how Abramsky's work has led to a powerful new paradigm for the semantics of computation. The work on contextuality and categorical quantum mechanics has been highly influential and provides the foundation for increasingly widely used methods in quantum computing. The work on comonads and descriptive complexity is building bridges between currently disjoint research areas in computer science relating Structure to Power. The volume also includes a scientific autobiography and an overview of the contributions. The outstanding set of contributors to this volume, including both senior and early career academics, serve as testament to Samson Abramsky's enduring influence. It will provide an invaluable and unique resource for both students and established researchers.

Monoidal Category Theory

Noson S. Yanofsky, 2024-11-05. A comprehensive cutting edge and highly readable textbook that makes category theory and monoidal category theory accessible to students across the sciences. Category theory is a powerful framework that began in mathematics but has since expanded to encompass several areas of computing and science with broad applications in many fields. In this comprehensive text, Noson Yanofsky makes category theory accessible to those without a background in advanced mathematics. Monoidal Category Theory demonstrates the expansive uses of categories and, in particular, monoidal categories throughout the sciences. The textbook starts from the basics of category theory and progresses to cutting edge research. Each idea is defined in simple terms and then brought alive by many real world examples before progressing to theorems and uncomplicated proofs. Richly guided exercises ground readers in concrete computation and application. The result is a highly readable and engaging textbook that will open the world of category theory to many. Makes category theory accessible to non-math majors. Uses easy to understand language and emphasizes diagrams over equations. Incremental iterative approach eases students into advanced concepts. A series of embedded mini-courses cover such popular topics as quantum computing, categorical logic, self-referential paradoxes, databases and scheduling, and knot theory. Extensive exercises and examples demonstrate the broad range of applications of categorical structures. Modular structure allows instructors to fit text to the needs of different courses. Instructor resources include slides.

Introduction to Coalgebra

Bart Jacobs, 2017. An accessible introduction to coalgebra with clear mathematical explanations and numerous examples and exercises.

Recent Advances in Multidisciplinary Applied Physics

Antonio Mendez-Vilas, 2005-09-28. The 1st International Meeting on Applied Physics (APHYS 2003) succeeded in creating a new international forum for applied physics in Europe with specific interest in the application of techniques, training, and culture of physics to research areas usually associated with other scientific and engineering disciplines. This book contains a selection of peer-reviewed papers presented at APHYS 2003, held in Badajoz, Spain, from 15th to 18th October 2003, which included the following Plenary Lectures: Nanobiotechnology, Interactions of Cells with Nanofeatured Surfaces and with Nanoparticles, Radiation Protection of Nuclear Workers, Ethical Issues, Chaotic Data Encryption for Optical Communications.

Algebraic and Coalgebraic Methods in the

Mathematics of Program Construction. Roland Backhouse, Roy Crole, Jeremy Gibbons, 2003-07-31. Program construction is

about turning specifications of computer software into implementations Recent research aimed at improving the process of program construction exploits insights from abstract algebraic tools such as lattice theory fixpoint calculus universal algebra category theory and allegory theory This textbook like tutorial presents besides an introduction eight coherently written chapters by leading authorities on ordered sets and complete lattices algebras and coalgebras Galois connections and fixed point calculus calculating functional programs algebra of program termination exercises in coalgebraic specification algebraic methods for optimization problems and temporal algebra

Category Theory Aurelio Carboni, Maria C. Pedicchio, Giuseppe Rosolini, 2006-11-14 With one exception these papers are original and fully refereed research articles on various applications of Category Theory to Algebraic Topology Logic and Computer Science The exception is an outstanding and lengthy survey paper by Joyal Street 80 pp on a growing subject it gives an account of classical Tannaka duality in such a way as to be accessible to the general mathematical reader and to provide a key for entry to more recent developments and quantum groups No expertise in either representation theory or category theory is assumed Topics such as the Fourier cotransform Tannaka duality for homogeneous spaces braided tensor categories Yang Baxter operators Knot invariants and quantum groups are introduced and studies From the Contents P J Freyd Algebraically complete categories J M E Hyland First steps in synthetic domain theory G Janelidze W Tholen How algebraic is the change of base functor A Joyal R Street An introduction to Tannaka duality and quantum groups A Joyal M Tierney Strong stacks and classifying spaces A Kock Algebras for the partial map classifier monad F W Lawvere Intrinsic co Heyting boundaries and the Leibniz rule in certain toposes S H Schanuel Negative sets have Euler characteristic and dimension

Metainformatics David L. Hicks, 2004-05-14 This volume contains the nal proceedings of the MetaInformatics Symposium 2003 MIS 2003 The event was held September 17 20 on the campus of the Graz University of Technology in Graz Austria As with previous events in the MIS series MIS 2003 brought together searchers and practitioners from a wide variety of elds to discuss a broad range of topics and ideas related to the eld of computer science The contributions that were accepted to and presented at the symposium are of a wide variety They range from theoretical considerations of important metainformatics related questions and issues to practical descriptions of approaches and systems that fer assistance in their resolution I hope you will nd the papers contained in this volume as interesting as the other members of the program committee and I have These proceedings would not have been possible without the help and assistance of many people In particular I would like to acknowledge the assistance of Springer Verlag in Heidelberg Germany especially Anna Kramer the computer science editor and Alfred Hofmann the executive editor for the LNCS series

Computer Science Logic Egon Börger, 1993 This volume presents the proceedings of the Computer Science Logic Workshop CSL 92 held in Pisa Italy in September October 1992 CSL 92 was the sixth of the series and the first one held as Annual Conference of the European Association for Computer Science Logic EACSL Full versions of the workshop contributions were collected after their presentation and reviewed On the basis of 58 reviews 26 papers were

selected for publication and appear here in revised final form Topics covered in the volume include Turing machines linear logic logic of proofs optimization problems lambda calculus fixpoint logic NP completeness resolution transition system semantics higher order partial functions evolving algebras functional logic programming inductive definability semantics of C classes for a functional language NP optimization problems theory of types and names scoping and relators 3 satisfiability Kleene's slash negation complete logic programs polynomial time oracle machines and monadic second order properties

PUBLISHER'S WEBSITE *Handbook of Algebra* M. Hazewinkel, 2000-04-06 *Handbook of Algebra* **An Introduction to the Language of Category Theory** Steven Roman, 2017-01-05 This textbook provides an introduction to elementary category theory with the aim of making what can be a confusing and sometimes overwhelming subject more accessible In writing about this challenging subject the author has brought to bear all of the experience he has gained in authoring over 30 books in university level mathematics The goal of this book is to present the five major ideas of category theory categories functors natural transformations universality and adjoints in as friendly and relaxed a manner as possible while at the same time not sacrificing rigor These topics are developed in a straightforward step by step manner and are accompanied by numerous examples and exercises most of which are drawn from abstract algebra The first chapter of the book introduces the definitions of category and functor and discusses diagrams duality initial and terminal objects special types of morphisms and some special types of categories particularly comma categories and hom set categories Chapter 2 is devoted to functors and natural transformations concluding with Yoneda's lemma Chapter 3 presents the concept of universality and Chapter 4 continues this discussion by exploring cones limits and the most common categorical constructions products equalizers pullbacks and exponentials along with their dual constructions The chapter concludes with a theorem on the existence of limits Finally Chapter 5 covers adjoints and adjunctions Graduate and advanced undergraduates students in mathematics computer science physics or related fields who need to know or use category theory in their work will find *An Introduction to Category Theory* to be a concise and accessible resource It will be particularly useful for those looking for a more elementary treatment of the topic before tackling more advanced texts *Relational and Algebraic Methods in Computer Science* Wolfram Kahl, Michael Winter, José Oliveira, 2015-09-24 This book constitutes the proceedings of the 15th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2015 held in Braga Portugal in September October 2015 The 20 revised full papers and 3 invited papers presented were carefully selected from 25 submissions The papers deal with the theory of relation algebras and Kleene algebras process algebras fixed point calculi idempotent semirings quantales allegories and dynamic algebras cylindric algebras and about their application in areas such as verification analysis and development of programs and algorithms algebraic approaches to logics of programs modal and dynamic logics interval and temporal logics *Mining Intelligence and Knowledge Exploration* Adrian Groza, Rajendra Prasath, 2018-12-18 This book constitutes the refereed conference proceedings of the 6th International Conference on Mining

Intelligence and Knowledge Exploration MIKE 2018 held in Cluj Napoca Romania in December 2018 The 33 full papers presented were carefully reviewed and selected from 93 submissions The papers were grouped into various subtopics including evolutionary computation knowledge exploration in IoT artificial intelligence machine learning image processing pattern recognition speech processing information retrieval natural language processing social network analysis security and fuzzy rough sets

Conditional and Typed Rewriting Systems Nachum Dershowitz, Naomi Lindenstrauss, 1995-09-22 This book presents thoroughly revised full versions of the 21 papers accepted for the Fourth International Workshop on Conditional and Typed Rewriting Systems CTRS 94 held in conjunction with ICALP 94 in Jerusalem Israel in July 1994 The volume reports the research advances in the area of rewriting in general achieved since the predecessor workshop held in July 1992 Among the topics addressed are conditional term rewriting typed systems higher order rewriting graph rewriting combinator based languages and constrained rewriting

Computer Science Logic Zoltán Ésik, 2006-09-28 This book constitutes the refereed proceedings of the 20th International Workshop on Computer Science Logic CSL 2006 The book presents 37 revised full papers together with 4 invited contributions addressing all current aspects of logic in computer science Coverage includes automated deduction and interactive theorem proving constructive mathematics and type theory equational logic and term rewriting automata and formal logics modal and temporal logic model checking finite model theory and more

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