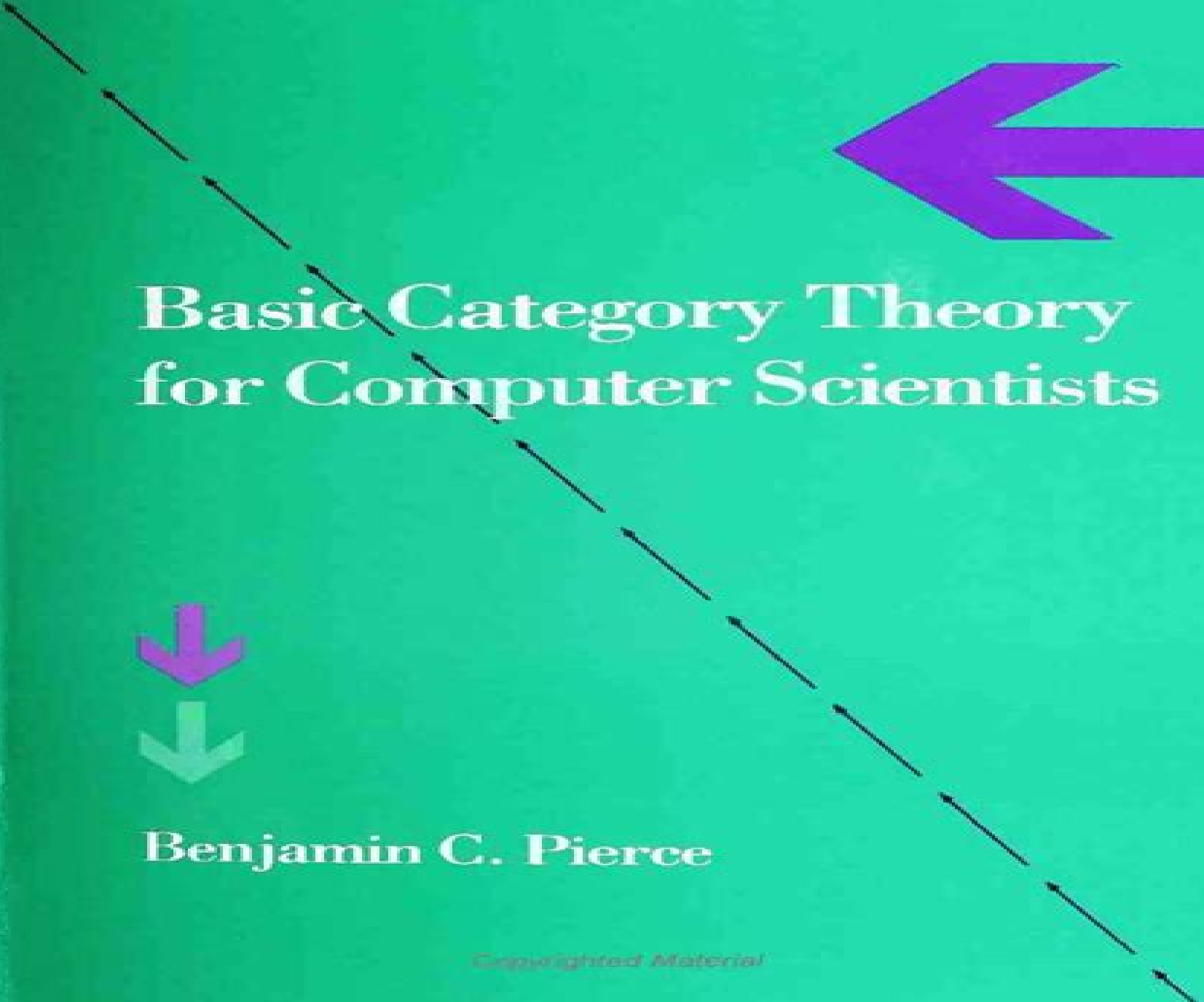
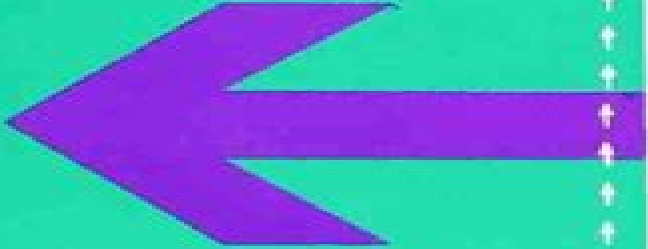




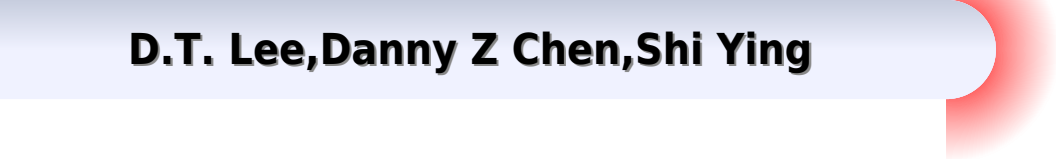
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Gibbons,2003-11-25 Generic programming attempts to make programming more efficient by making it more general This book is devoted to a novel form of genericity in programs based on parameterizing programs by the structure of the data they manipulate 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 **Category Theory and Computer Science** Eugenio Moggi,Giuseppe Rosolini,1997-08-20 This book constitutes the refereed proceedings of the 7th International Conference on Category Theory and Computer Science CTCS 97 held in Santa Margherita Ligure Italy in September 1997 Category theory attracts interest in the theoretical computer science community because of its ability to establish connections between different areas in computer science and mathematics and to provide a few generic principles for organizing mathematical theories This book presents a selection of 15 revised full papers together with three invited contributions The topics addressed include reasoning principles for types rewriting program semantics and structuring of logical systems **Theory and Applications of Ontology: Computer Applications** Roberto Poli,Michael Healy,Achilles Kameas,2010-09-02 Ontology was once understood to be the philosophical inquiry into the structure of reality the analysis and categorization of what there is Recently however a field called ontology has become part of the rapidly growing research industry in information technology The two fields have more in common than just their name Theory and Applications of Ontology is a two volume anthology that aims to further an informed discussion about the relationship between ontology in philosophy and ontology in information technology It fills an important lacuna in cutting edge research on ontology in both fields supplying stage setting overview articles on history and method presenting directions of current research in either field and highlighting areas of productive interdisciplinary contact Theory and Applications of Ontology Computer Applications presents ontology in ways that philosophers are not likely to find elsewhere The volume offers an overview of current research in ontology distinguishing basic conceptual issues domain applications general frameworks and mathematical formalisms It introduces the reader to current research on frameworks and applications in information technology in ways that are sure to invite reflection and constructive responses from ontologists in philosophy **Operads of Wiring Diagrams** Donald Yau,2018-09-19 Wiring diagrams form a kind of graphical language that describes operations or processes with multiple inputs and outputs and shows how such operations are wired together to form a larger and more complex operation This monograph presents a comprehensive study of the combinatorial structure of the various operads of wiring diagrams their algebras and the relationships between these operads The book proves finite presentation theorems for operads of wiring diagrams as well as their algebras These theorems describe the operad in terms of just a few operadic generators and a small number of generating relations The author further explores recent trends in the application of operad theory to wiring diagrams and related structures including finite presentations for the propagator algebra the algebra of

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Frontiers in Algorithms D.T. Lee, Danny Z Chen, Shi Ying, 2010-07-12 This book constitutes the refereed proceedings of the 4th International Frontiers of Algorithmics Workshop FAW 2010 held in Wuhan China in August 2010 The 28 revised full papers presented together with the abstracts of 3 invited talks were carefully reviewed and selected from 57 submissions The Workshop will provide a focused forum on current trends of research on algorithms discrete structures and their applications and will bring together international experts at the research frontiers in these areas to exchange ideas and to present significant new results The mission of the Workshop is to stimulate the various fields for which algorithmics can become a crucial enabler and to strengthen the ties between the Eastern and Western research communities of algorithmics and applications

Practical Foundations of Mathematics Paul Taylor, 1999-05-13 Practical Foundations collects the methods of construction of the objects of twentieth century mathematics Although it is mainly concerned with a framework essentially equivalent to intuitionistic Zermelo Fraenkel logic the book looks forward to more subtle bases in categorical type theory and the machine representation of mathematics Each idea is illustrated by wide ranging examples and followed critically along its natural path transcending disciplinary boundaries between universal algebra type theory category theory set theory sheaf theory topology and programming Students and teachers of computing mathematics and philosophy will find this book both readable and of lasting value as a reference work

Foundations of Artificial Intelligence and Robotics Wendell H. Chun, 2024-12-24 Artificial intelligence AI is a complicated science that combines philosophy cognitive psychology neuroscience mathematics and logic logicism economics computer science computability and software Meanwhile robotics is an engineering field that compliments AI There can be situations where AI can function without a robot e g Turing Test and robotics without AI e g teleoperation but in many cases each technology requires each other to exhibit a complete system having smart robots and AI being able to control its interactions i e effectors with its environment This book provides a complete history of computing AI and robotics from its early development to state of the art technology providing a roadmap of these complicated and constantly evolving subjects Divided into two volumes covering the progress of symbolic logic and the explosion in learning deep learning in natural language and perception this first volume investigates the coming together of AI the mind and robotics the body and discusses the state of AI today Key Features Provides a complete overview of the topic of AI starting with philosophy psychology neuroscience and logicism and extending to the action of the robots and AI needed for a futuristic society

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Handbook of Automated Reasoning Alan J.A. Robinson, Andrei Voronkov, 2001-06-22 Handbook of Automated Reasoning

Advanced Topics in Bisimulation and Coinduction Davide Sangiorgi, Jan Rutten, 2011-10-13 Coinduction is a method for specifying and reasoning about infinite data types and automata with infinite behaviour In recent years it has come to play an ever more important role in the theory of computing It is studied in many disciplines including process theory and concurrency modal logic and automata theory Typically coinductive proofs demonstrate the equivalence of two objects by constructing a suitable bisimulation relation between them This collection of surveys is aimed at both researchers and Master's students in computer science and mathematics and deals with various aspects of bisimulation and coinduction with an emphasis on process theory Seven chapters cover the following topics history algebra and coalgebra algorithmics logic higher order languages enhancements of the bisimulation proof method and probabilities Exercises are also included to help the reader master new material

Category Theory for the Sciences David I. Spivak, 2014-10-10 An introduction to category theory as a rigorous flexible and coherent modeling language that can be used across the sciences Category theory was invented in the 1940s to unify and synthesize different areas in mathematics and it has proven remarkably successful in enabling powerful communication between disparate fields and subfields within mathematics This book shows that category theory can be useful outside of mathematics as a rigorous flexible and coherent modeling language throughout the sciences Information is inherently dynamic the same ideas can be organized and reorganized in countless ways and the ability to translate between such organizational structures is becoming increasingly important in the sciences Category theory offers a unifying framework for information modeling that can facilitate the translation of knowledge between disciplines Written in an engaging and straightforward style and assuming little background in mathematics the book is rigorous but accessible to non-mathematicians Using databases as an entry to category theory it begins with sets and functions then introduces the reader to notions that are fundamental in mathematics monoids groups orders and graphs categories in disguise After explaining the big three concepts of category theory categories functors and natural transformations the book covers other topics including limits colimits functor categories sheaves monads and operads The book explains category theory by examples and exercises rather than focusing on theorems and proofs It includes more than 300 exercises with solutions Category Theory for the Sciences is intended to create a bridge between the vast array of mathematical concepts used by

mathematicians and the models and frameworks of such scientific disciplines as computation neuroscience and physics

Recent Advances In Information Science And Technology Nikos E Mastorakis, 1998-10-12 Recent Advances in Information Science and Technology brings you a balanced state of the art presentation of the latest concepts methods algorithms techniques procedures and applications of the fascinating field of Computer Science and Engineering Written by eminent leading international experts the contributors provide up to date aspects of topics discussed and present fresh original insights into their own experience with Information Science and Technology This rich anthology of papers which compose this volume contains the latest developments and reflects the experience of many eminent researchers working in different environments universities research centers and industry The book is composed of five parts Software Engineering in which new trends and recent scientific results in software engineering data structures algorithms knowledge based systems VLSI design computer languages and industrial computer applications are presented Signal Processing in which modern topics in signal processing identification recognition speech processing and detection are included Multi Dimensional m D Systems Theory and Applications which contains new research results in m D systems theory and impressive applications of multidimensional systems mainly in signal processing Communication Systems containing modern topics of communication as Digital systems of communication computer networks theory ATM networks optical networks hybrid fiber coaxial networks Internet etc Modern Numerical Techniques and Related Topics which covers some aspects of the modern computation science and technology

Metainformatics David L. Hicks, 2004-04-29 This book constitutes the thoroughly refereed post proceedings of the Metainformatics Symposium MIS 2003 held in Graz Austria in September 2003 The 17 revised papers presented were carefully reviewed and selected for inclusion in the book The topics addressed span the entire range from theoretical considerations of important metainformatics related questions and issues to practical descriptions of approaches and systems that offer assistance in their resolution

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