Computational Complexity Theory

Theory Of Computer Science

Steven Homer,Alan L. Selman

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verification and logic programming updated references and examples throughout *Lectures in Game Theory for Computer Scientists* Krzysztof R. Apt,Erich Grädel,2011-01-06 Games provide mathematical models for interaction Numerous tasks in computer science can be formulated in game theoretic terms This fresh and intuitive way of thinking through complex issues reveals underlying algorithmic questions and clarifies the relationships between different domains This collection of lectures by specialists in the field provides an excellent introduction to various aspects of game theory relevant for applications in computer science that concern program design synthesis verification testing and design of multi agent or distributed systems Originally devised for a Spring School organised by the GAMES Networking Programme in 2009 these lectures have since been revised and expanded and range from tutorials concerning fundamental notions and methods to more advanced presentations of current research topics This volume is a valuable guide to current research on game based methods in computer science for undergraduate and graduate students It will also interest researchers working in mathematical logic computer science and game theory **Introduction To Theoretical Computer Science** Xiwen Ma,1990-07-18 The contents of this book are self sufficient in the sense that no preliminary knowledge other than elementary set theory is needed and there are no complicated mathematical theorems in the book A must for those entering the field **Basic Category Theory for Computer Scientists** Benjamin C. Pierce,1991-08-07 Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory including limits functors natural transformations adjoints and cartesian closed categories Category theory is a branch of pure mathematics that is becoming an increasingly important tool in theoretical computer science especially in programming language semantics domain theory and concurrency where it is already a standard language of discourse Assuming a minimum of mathematical preparation Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory including limits functors natural transformations adjoints and cartesian closed categories Four case studies illustrate applications of category theory to programming language design semantics and the solution of recursive domain equations A brief literature survey offers suggestions for further study in more advanced texts Contents Tutorial Applications Further Reading **Computability and Complexity Theory** Steven Homer,Alan L. Selman,2013-03-09 The theory of computing provides computer science with concepts models and formalisms for reasoning about both the resources needed to carry out computa tions and the efficiency of the computations that use these resources lt provides tools to measure the difficulty of combinatorial problems both absolutely and in comparison with other problems Courses in this subject help students gain an alytic skills and enable them to recognize the limits of computation For these reasons a course in the theory of computing is usually required in the graduate computer science curriculum The barder question to address is which topics such a course should cover We believe that students should learn the fundamental models of computation the limitations of computation and the distinctions between feasible and intractable

In particular the phenomena ofNP completeness and NP hardness have pervaded much of science and transformed computer science One option is to survey a large nurober of theoretical subjects typically focusing on automata and formal languages However these subjects are less important to theoretical computer sci ence and to computer science as a whole now than in the past Many students have taken such a course as part of their undergraduate education We chose not to take that route because computability and complexity theory are the subjects that we feel deeply about and that we believe are important for students to learn Furthermore a graduate course should be scholarly lt is better to treat important topics thoroughly than to survey the field   *Basic Category Theory for Computer Scientists* Benjamin C. Pierce,1991-08-07 Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory including limits functors natural transformations adjoints and cartesian closed categories Category theory is a branch of pure mathematics that is becoming an increasingly important tool in theoretical computer science especially in programming language semantics domain theory and concurrency where it is already a standard language of discourse Assuming a minimum of mathematical preparation Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory including limits functors natural transformations adjoints and cartesian closed categories Four case studies illustrate applications of category theory to programming language design semantics and the solution of recursive domain equations A brief literature survey offers suggestions for further study in more advanced texts Contents Tutorial Applications Further Reading   **Category Theory for Computing Science** Michael Barr,Charles Wells,1990 Textbook for advanced undergraduates graduates and researchers in computing science and mathematics expounds the basic ideas and construction of category theory with examples from and applications to computing science The emphasis is on examples and on understanding the concepts rather than on formal proofs of the theorems Annotation copyright   **Theory of Computation** Dexter C. Kozen,2009-10-12 This textbook is uniquely written with dual purpose It cover cores material in the foundations of computing for graduate students in computer science and also provides an introduction to some more advanced topics for those intending further study in the area This innovative text focuses primarily on computational complexity theory the classification of computational problems in terms of their inherent complexity The book contains an invaluable collection of lectures for first year graduates on the theory of computation Topics and features include more than 40 lectures for first year graduate students and a dozen homework sets and exercises   **Algorithms and Theory of Computation Handbook** Mikhail J. Atallah,1998-11-23 Algorithms and Theory of Computation Handbook is a comprehensive collection of algorithms and data structures that also covers many theoretical issues It offers a balanced perspective that reflects the needs of practitioners including emphasis on applications within discussions on theoretical issues Chapters include information on finite precision issues as well as discussion of specific algorithms where algorithmic techniques are of special importance including graph drawing robotics forming a VLSI chip

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ride home and began reading one of the chapters I liked the style and format of the book so much that over the course of the next few months I frequently found myself reaching for it and working through one chapter or another This was my introduction to Peden der Theoretischen Informatik A few of my colleagues had also seen the book They also found it interesting but most of them did not read German well enough to read more than small portions of it enjoyably I hope that the English version will rectify this situation and that many will enjoy and learn from the English version as much as I enjoyed the German version The front matter of this book says that it has been translated revised and expanded I should perhaps say a few words about each of these tasks In translating the book Ihave tried as much as possible to retain the feel of the original which is somewhat less formal and impersonal than a typical text book yet relatively concise I certainly hope that the pleasure of the pursuit of understanding has not gotten lost in the translation

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