

PROGRESS IN THEORETICAL COMPUTER SCIENCE



The Graph Isomorphism Problem

Its Structural Complexity

**Johannes Köbler
Uwe Schöning
Jacobo Torán**



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The Graph Isomorphism Problem Its Structural Complexity

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The Graph Isomorphism Problem Its Structural Complexity:

The Graph Isomorphism Problem J. Kobler, U. Schöning, J. Toran, 2012-12-06 Recently a variety of results on the complexity status of the graph isomorphism problem has been obtained. These results belong to the so called structural part of Complexity Theory. Our idea behind this book is to summarize such results which might otherwise not be easily accessible in the literature and also to give the reader an understanding of the aims and topics in Structural Complexity Theory in general. The text is basically self contained; the only prerequisite for reading it is some elementary knowledge from Complexity Theory and Probability Theory. It can be used to teach a seminar or a monographic graduate course but also parts of it especially Chapter 1 provide a source of examples for a standard graduate course on Complexity Theory. Many people have helped us in different ways. In the process of writing this book. Especially we would like to thank V. Arvind, R. V. Book, E. May, Ordono and the referee who gave very constructive comments. This book project was especially made possible by a DAAD grant in the Acciones Integradas program. The third author has been supported by the ESPRIT project ALCOM II.

The Graph Isomorphism Problem Johannes Köbler, Uwe Schöning, Jacobo Torán, 1993-01-01 The graph isomorphism problem belongs to the part of Complexity Theory that focuses on the structure of complexity classes involved in the classification of computational problems and in the relations among them. It consists in deciding whether two given graphs are isomorphic, i.e. whether there is a bijective mapping from the nodes of one graph to the nodes of the second graph such that the edge connections are respected. It is a problem of considerable practical as well as theoretical importance that is as of now unresolved in the sense that no efficient algorithm for it has yet been found. Given this fact it is natural to ask whether such an algorithm exists or whether the problem is intractable. The book focuses on this issue and presents several recent results that provide a better understanding of the relative position of the graph isomorphism problem in the class NP as well as in other complexity classes. It also uses the problem to illustrate important concepts in structural complexity providing a look into the more general theory. The book is basically self contained; the only prerequisite for reading it is some elementary knowledge from Complexity Theory and Probability Theory. Its level of presentation makes it eminently suitable for a seminar or graduate course devoted to the problem or as a rich source of examples for a standard graduate course in Complexity Theory.

The Graph Isomorphism Problem, 1993 *Structural Pattern Recognition using Graph Matching* Shri Prakash Dwivedi, Ravi Shankar Singh, 2025-09-30 This book presents a comprehensive exploration of structural pattern recognition with a clear understanding of graph representation and manipulation. It explains graph matching techniques, unearthing the core principles of graph similarity measures, subgraph isomorphism, and advanced algorithms tailored to various pattern recognition tasks. It bridges the gap between theory and application by providing case studies, hands-on examples, and applications. It is a reference book for academicians, researchers, and students working in the fields of structural pattern recognition, computer vision, artificial intelligence, and data science. Begins with the fundamentals of graph

theory graph matching algorithms and structural pattern recognition concepts and explains the principles methodologies and practical implementations Presents relevant case studies and hands on examples across chapters to guide making informed decisions by graph matching Discusses various graph matching algorithms including exact and approximate methods geometric methods spectral techniques graph kernels and graph neural networks including practical examples to illustrate the strengths and limitations of each approach Showcases the versatility of graph matching in real world applications such as image analysis biological molecule identification object recognition social network clustering and recommendation systems Describes deep learning models for graph matching including graph convolutional networks GCNs and graph neural networks GNNs

Algorithm Theory -- SWAT 2014 Inge Li Gørtz,R. Ravi,2014-06-25 This book constitutes the refereed proceedings of the 14th International Scandinavian Symposium and Workshops on Algorithm Theory SWAT 2014 held in Copenhagen Denmark in July 2014 The 33 papers were carefully reviewed and selected from a total of 134 submissions The papers present original research and cover a wide range of topics in the field of design and analysis of algorithms and data structures including but not limited to approximation algorithms parameterized algorithms computational biology computational geometry and topology distributed algorithms external memory algorithms exponential algorithms graph algorithms online algorithms optimization algorithms randomized algorithms streaming algorithms string algorithms sublinear algorithms and algorithmic game theory

STACS 2000 Horst Reichel,Sophie Tison,2007-08-03 This book constitutes the refereed proceedings of the 17th Annual Symposium on Theoretical Aspects of Computer Science STACS 2000 held in Lille France in February 2000 The 51 revised full papers presented together with the three invited papers were carefully reviewed and selected from a total of 146 submissions on the basis of some 700 reviewers reports The papers address fundamental issues from all current areas of theoretical computer science including algorithms data structures automata formal languages complexity verification logic cryptography graph theory optimization etc

Mathematical Software - ICMS 2018 James H. Davenport,Manuel Kauers,George Labahn,Josef Urban,2018-07-17 This book constitutes the proceedings of the 6th International Conference on Mathematical Software ICMS 2018 held in South Bend IN USA in July 2018 The 59 papers included in this volume were carefully reviewed and selected from numerous submissions The program of the 2018 meeting consisted of 20 topical sessions each of which providing an overview of the challenges achievements and progress in a subeld of mathematical software research development and use

Propositional Logic Hans Kleine Büning,Theodor Lettmann,1999-08-28 This account of propositional logic concentrates on the algorithmic translation of important methods especially of decision procedures for subclasses of propositional logic Important classical results and a series of new results taken from the fields of normal forms satisfiability and deduction methods are arranged in a uniform and complete theoretic framework The algorithms presented can be applied to VLSI design deductive databases and other areas After introducing the subject the authors discuss satisfiability problems and satisfiability algorithms with complexity

considerations the resolution calculus with different refinements and special features and procedures for Horn formulas Then a selection of further calculi and some results on the complexity of proof procedures are presented The last chapter is devoted to quantified boolean formulas The algorithmic approach will make this book attractive to computer scientists and graduate students in areas such as automated reasoning logic programming complexity theory and pure and applied logic

Gems of Theoretical Computer Science Uwe Schöningh, Randall J. Pruim, 2012-12-06 While I was visiting Boston University during the 1996 97 academic year I noticed a small book written in German on a shelf in Steve Homer s office Curious I borrowed it for my train 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 inter esting 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 I have 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 Applications of Generative AI Zhihan Lyu, 2024-03-05 This book provides a comprehensive introduction to Generative AI in terms of basic concepts core technologies technical architecture and application scenarios Readers gain a deeper understanding of the emerging discipline of Generative AI This book covers the latest cutting edge application technologies of Generative AI in various fields It provides relevant practitioners with ideas to solve problems and deepen their understanding of Generative AI At the same time it guides and helps Generative AI and related industries to deepen their understanding of the industry and enhance professional knowledge and skills Starting from reality this book lists many cases and analyzes theories in a popular image The book is useful for AI researchers and specifically for those working with the applications at hand primarily medical imaging and construction twinning industry It covers a variety of cutting edge technologies in Generative AI which provides researchers with new research ideas

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