

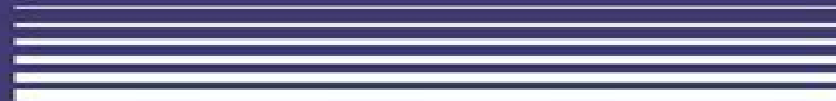
PROGRESS IN THEORETICAL COMPUTER SCIENCE



The Graph Isomorphism Problem

Its Structural Complexity

**Johannes Köbler
Uwe Schöning
Jacobo Torán**



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The Graph Isomorphism Problem Its Structural Complexity:

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, Ordóñez 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 **Handbook of Graph Theory** Jonathan L. Gross, Jay Yellen, 2003-12-29 The Handbook of Graph Theory is the most comprehensive single source guide to graph theory ever published. Best selling authors Jonathan Gross and Jay Yellen assembled an outstanding team of experts to contribute overviews of more than 50 of the most significant topics in graph theory including those related to algorithmic and optimization approach.

Perspectives in Computational Complexity Manindra Agrawal, Vikraman Arvind, 2014-07-16 This book brings together contributions by leading researchers in computational complexity theory written in honor of Somenath Biswas on the occasion of his sixtieth birthday. They discuss current trends and exciting developments in this

flourishing area of research and offer fresh perspectives on various aspects of complexity theory The topics covered include arithmetic circuit complexity lower bounds and polynomial identity testing the isomorphism conjecture space bounded computation graph isomorphism resolution and proof complexity entropy and randomness Several chapters have a tutorial flavor The aim is to make recent research in these topics accessible to graduate students and senior undergraduates in computer science and mathematics It can also be useful as a resource for teaching advanced level courses in computational complexity

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

Graph-Theoretic Concepts in Computer Science Martin Charles Golumbic, Michael Stern, Avivit Levy, Gila Morgenstern, 2012-10-22 This book constitutes the thoroughly refereed proceedings of the 38th International Workshop on Graph Theoretic Concepts in Computer Science WG 2012 held in Jerusalem Israel on June 26 28 2012 The 29 revised full papers presented were carefully selected and reviewed from 78 submissions The papers are solicited describing original results on all aspects of graph theoretic concepts in Computer Science e g structural graph theory sequential parallel randomized parameterized and distributed graph and network algorithms and their complexity graph grammars and graph rewriting systems graph based modeling graph drawing and layout random graphs diagram methods and support of these concepts by suitable implementations The scope of WG includes all applications of graph theoretic concepts in Computer Science including data structures data bases programming languages computational geometry tools for software construction communications computing on the web models of the web and scale free networks mobile computing concurrency computer architectures VLSI artificial intelligence graphics CAD operations research and pattern recognition

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 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 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

Algorithms and Computation Leizhen Cai, Siu-Wing Cheng, Tak-Wah Lam, 2013-12-12 This book constitutes the refereed proceedings of the 24th International Symposium on Algorithms and Computation ISAAC 2013 held in Hong Kong China in December 2013 The 67 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 177 submissions for inclusion in the book The focus of the volume is on the following topics computation geometry pattern matching computational complexity internet and social network algorithms graph theory and algorithms scheduling algorithms fixed parameter tractable algorithms algorithms and data structures algorithmic game theory approximation algorithms and network algorithms 1995 *IEEE Structure in Complexity Theory*, 1995 *Chicago Journal of Theoretical Computer Science*, 1999 *Mathematical Reviews*, 1995 *Proceedings of the Ninth Workshop on Algorithm Engineering and Experiments and the Fourth Workshop on Analytic Algorithms and Combinatorics* David Applegate, 2007 Proceedings of the Seventh SIAM International Conference on Data Mining **13th Annual IEEE Conference on Computational**

Complexity, 1998 **Annual Symposium on Theoretical Aspects of Computer Science**, 2006 43rd Annual IEEE Symposium on Foundations of Computer Science, 2002 Collects the 77 papers presented during the November 2002 symposium on the mathematical foundations of computing Among the topics are abstract combinatorial programs and efficient property testers a lower bound for testing 3 colorability in bounded degree graphs a spectral algorithm for learning

SIAM Journal on Computing Society for Industrial and Applied Mathematics, 2004 Contains research articles in the application of mathematics to the problems of computer science and the nonnumerical aspects of computing

Computational Complexity Institute of Electrical and Electronics Engineers, Inc. Staff, 1997-06 Contains 27 papers from the June conference plus texts on which survey talks at the conference were based Some topics include the general notion of a dot operator polynomial vicinity circuits and nonlinear lower bounds complexity and expressive power of logic programming upper and lower bounds for some depth 3 circuit classes time bounded frequency computations communication complexity of the universal relation and the bottleneck counting argument No index Annotation copyrighted by Book News Inc Portland OR Computing and Combinatorics, 2003 *Proceedings*, 1998

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