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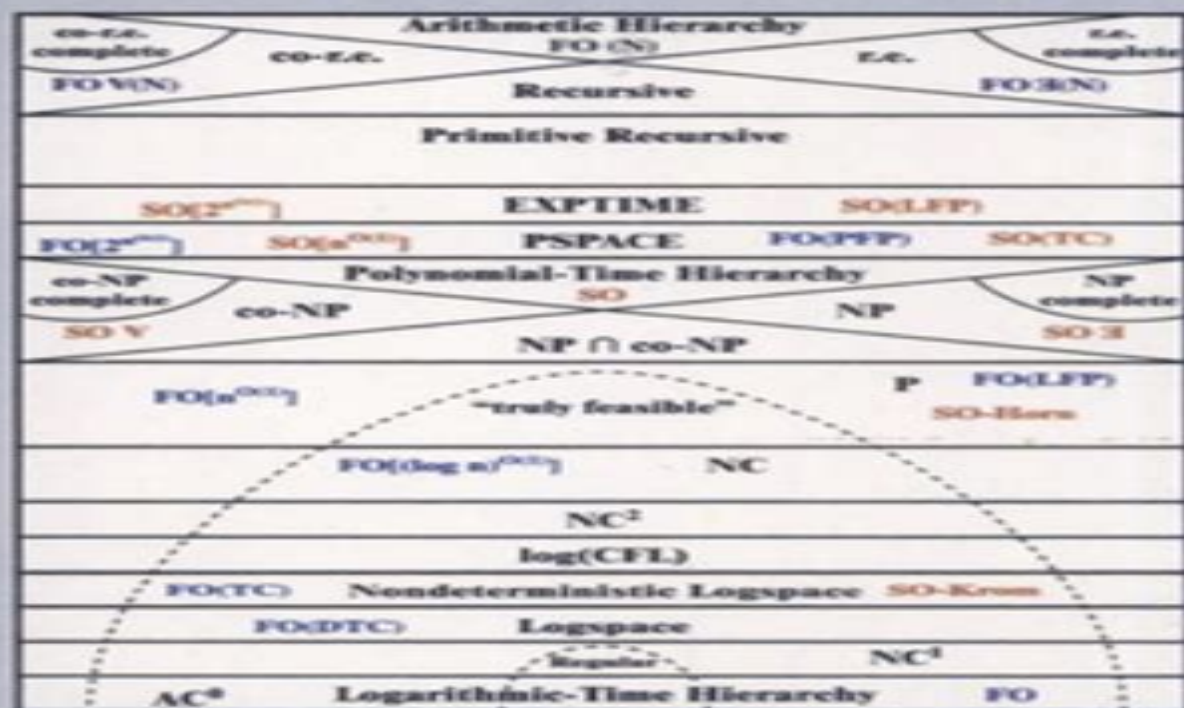

Neil Immerman

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Rod Downey,Michael Ralph Fellows,Kenneth W. Regan,Victoria University of Wellington. Mathematics Department

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Descriptive Complexity Neil Immerman,1998-11-20 By virtue of the close relationship between logic and relational databases it turns out that complexity has important applications to databases such as analyzing the parallel time needed to compute a query and the analysis of nondeterministic classes This book is a relatively self contained introduction to the subject which includes the necessary background material as well as numerous examples and exercises Descriptive Complexity, Canonisation, and Definable Graph Structure Theory Martin Grohe,2017-08-17 Descriptive complexity theory establishes a connection between the computational complexity of algorithmic problems the computational resources required to solve the problems and their descriptive complexity the language resources required to describe the problems This groundbreaking book approaches descriptive complexity from the angle of modern structural graph theory specifically graph minor theory It develops a definable structure theory concerned with the logical definability of graph theoretic concepts such as tree decompositions and embeddings The first part starts with an introduction to the background from logic complexity and graph theory and develops the theory up to first applications in descriptive complexity theory and graph isomorphism testing It may serve as the basis for a graduate level course The second part is more advanced and mainly devoted to the proof of a single previously unpublished theorem properties of graphs with excluded minors are decidable in polynomial time if and only if they are definable in fixed point logic with counting *Descriptive Complexity and Finite Models* Neil Immerman,Phokion Kolaitis,1997-01-01 This volume presents articles by leading researchers who delivered talks at the Workshop on Finite Models and Descriptive Complexity at Princeton in January 1996 during a DIMACS sponsored Special Year on Logic and Algorithms Each article is self contained and provides a valuable introduction to the featured research areas connected with finite model theory Ordering and Descriptive Complexity Kousha Etessami,1995

Small Dynamic Complexity Classes Thomas Zeume,2017-02-15 Small Dynamic Complexity Classes was awarded the E W Beth Dissertation Prize 2016 for outstanding dissertations in the fields of logic language and information The thesis studies the foundations of query re evaluation after modifying a database It explores the structure of small dynamic descriptive complexity classes and provides new methods for proving lower bounds in this dynamic context One of the contributions to the former aspect helped to confirm the conjecture by Patnaik and Immerman 1997 that reachability can be maintained by first order update formulas **Descriptive Complexity and Finite Models** Neil Immerman,1997 We hope that this small volume will suggest directions of synergy and contact for future researchers to build upon creating connections and making discoveries that will help explain some of the many mysteries of computation The Preface Finite model theory can be succinctly described as the study of logics on finite structures It is an area of research existing between mathematical logic and computer science This area has been developing through continuous interaction with computational complexity database theory and combinatorics The volume presents articles by leading researche **Descriptive**

Complexity for Counting Complexity Classes Martín Alonso Muñoz Cruces,2017 La complejidad descriptiva ha sido muy exitosa en caracterizar clases de complejidad de decisi n en t rminos de propiedades definibles en algunas l gicas Sin embargo la complejidad descriptiva para clases de complejidad de conteo como FP y P no ha sido estudiada sistem ticamente y no est tan desarrollada como su an logo de decisi n En este art culo proponemos un marco te rico basado en l gicas con peso para tratar este problema Espec ficamente al enfocarnos en los n meros naturales obtenemos una l gica llamada L gica de Segundo Orden Cuantitativa QSO y mostramos c mo algunos de sus fragmentos pueden ser usados para capturar clases de complejidad de conteo fundamentales como FP P y FPSPACE entre otras Tambi n usamos QSO para definir una jerarqu a dentro de P identificando clases de complejidad de conteo con buenas propiedades de clausura y aproximaci n y que admiten problemas completos naturales Finalmente a adimos recursi n a QSO y mostramos c mo esta extensi n captura naturalmente clases de complejidad de conteo inferiores como L **Investigations in the Theory of Descriptive Complexity** William L. Gewirtz,2018-03-02 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant Systems of Bounded Arithmetic from Descriptive Complexity [microform] Antonina Kolokolova,2005 In this thesis we discuss a general method of constructing systems of bounded arithmetic from descriptive complexity logics of known complexity We discuss the conditions under which the resulting systems capture the same complexity class in the bounded arithmetic setting as the corresponding logic in the descriptive complexity setting Our method works for small complexity classes P and below which have simple proofs of closure under complementation Additionally we require proofs of membership and co membership for instances of decision problems to be constructible within the same complexity class Based on this general theorem we discuss systems of arithmetic for classes P and NL We also give a system of arithmetic for SL although the definability theorem for SL is weaker More formally given a logic L capturing complexity class C the corresponding second order system V L of arithmetic consists of a system for AC 0 together with comprehension over L formulae If the class is provably in V L closed under AC 0 reductions and every formula or its possibly semantic negation can be witnessed in C then the resulting system captures C *Investigations in the Theory of Descriptive Complexity (Classic Reprint)* William L. Gewirtz,2015-08-04

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meetings originally intended as Internat nal Workshops on Computer Science Logic and the 8th to be held as the nual Conference of the EACSL The conference was organized by the Computer Science Departments DSIP and DACYA at Universidad Complutense in M rid UCM The CSL 99 program committee selected 34 of 91 submitted papers for p sentation at the conference and publication in this proceedings volume Each submitted paper was refereed by at least two and in almost all cases three di erent referees The second refereeing round previously required before a per was accepted for publication in the proceedings was dropped following a decision taken by the EACSL membership meeting held during CSL 98 Brno Czech Republic August 25 1998

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