

# Finite Model Theory

## Lecture 8

Logics and Complexity Classes

# Finite Model Theory

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Velavancorresponding**



## **Finite Model Theory:**

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**Elements of Finite Model Theory** Leonid Libkin, 2004-07-02 Emphasizes the computer science aspects of the subject Details applications in databases complexity theory and formal languages as well as other branches of computer science

*Finite Model Theory and Its Applications* Erich Grädel, Phokion G. Kolaitis, Leonid Libkin, Maarten Marx, Joel Spencer, Moshe Y. Vardi, Yde Venema, Scott Weinstein, 2007-04-24 Finite model theory as understood here is an area of mathematical logic that has developed in close connection with applications to computer science in particular the theory of computational complexity and database theory One of the fundamental insights of mathematical logic is that our understanding of mathematical phenomena is enriched by elevating the languages we use to describe mathematical structures to objects of explicit study If mathematics is the science of patterns then the media through which we discern patterns as well as the structures in which we discern them command our attention It is this aspect of logic which is most prominent in model theory the branch of mathematical logic which deals with the relation between a formal language and its interpretations No wonder then that mathematical logic and finite model theory in particular should find manifold applications in computer science from specifying programs to querying databases computer science is rife with phenomena whose understanding requires close attention to the interaction between language and structure This volume gives a broad overview of some central themes of finite model theory expressive power descriptive complexity and zero one laws together with selected applications to database theory and artificial intelligence especially constraint databases and constraint satisfaction problems The final chapter provides a concise modern introduction to modal logic which emphasizes the continuity in spirit and technique with finite model theory

**Finite Model Theory** Heinz-Dieter Ebbinghaus, Jörg Flum, 2014-03-12 Finite model theory has its origin in classical model theory but owes its systematic development to research from complexity theory The book presents the main results of descriptive complexity theory that is the connections between axiomatizability of classes of finite structures and their complexity with respect to time and space bounds The logics that are important in this context include fixed point logics transitive closure logics and also certain infinitary languages their model theory is studied in full detail Other topics include DATALOG languages quantifiers and oracles 0 1 laws and optimization and approximation problems The book is written in such a way that the respective parts on model theory and descriptive complexity theory may be read independently

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**Bounded Variable Logics and Counting** Martin Otto, 2017-03-02 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again In this volume the ninth publication in the Lecture Notes in Logic series Martin Otto gives an introduction to finite model theory that indicates the main ideas and lines of inquiry that motivate research in this area Particular attention is paid to bounded variable infinitary logics with and without counting quantifiers related fixed point logics and the corresponding fragments of Ptime The relations with Ptime exhibit the fruitful exchange between ideas from logic and from complexity theory that is characteristic of finite model theory

[Finite Model Theory And Its Applications](#) Grdel, 2009-12-01 **Elements of Finite Model Theory** Leonid Libkin, 2013-03-09 Finite model theory is an area of mathematical logic that grew out of computer science applications The main sources of motivational examples for finite model theory are found in database theory computational complexity and formal languages although in recent years connections with other areas such as formal methods and verification and artificial intelligence have been discovered The birth of finite model theory is often identified with Trakhtenbrot's result from 1950 stating that validity over finite models is not recursively enumerable in other words completeness fails over finite models The technique of the proof based on encoding Turing machine computations as finite structures was reused by Fagin almost a quarter century later to prove his celebrated result that put the equality sign between the class NP and existential second order logic thereby providing a machine independent characterization of an important complexity class In 1982 Immerman and Vardi showed that over ordered structures a fixed point extension of first order logic captures the complexity class PTIME of polynomial time computable properties Shortly thereafter logical

characterizations of other important complexity classes were obtained This line of work is often referred to as descriptive complexity A different line of finite model theory research is associated with the development of relational databases By the late 1970s the relational database model had replaced others and all the basic query languages for it were essentially first order predicate calculus or its minor extensions

**Finite Model Theory** Lauri Hella, Jouko Väänänen, 1997\* *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

**Finite and Algorithmic Model Theory** Javier Esparza, Christian Michaux, Charles Steinhorn, 2011-03-10 Surveys of current research in logical aspects of computer science that apply finite and infinite model theoretic methods

**Strong Laws in Finite Model Theory** Wafik Boulos Lotfallah, 1998

**Introduction to Model Theory** Philipp Rothmaler, 2018-12-07 Model theory investigates mathematical structures by means of formal languages So called first order languages have proved particularly useful in this respect This text introduces the model theory of first order logic avoiding syntactical issues not too relevant to model theory In this spirit the compactness theorem is proved via the algebraically useful ultraproduct technique rather than via the completeness theorem of first order logic This leads fairly quickly to algebraic applications like Malcev's local theorems of group theory and after a little more preparation to Hilbert's Nullstellensatz of field theory Steinitz dimension theory for field extensions is obtained as a special case of a much more general model theoretic treatment of strongly minimal theories There is a final chapter on the models of the first order theory of the integers as an abelian group Both these topics appear here for the first time in a textbook at the introductory level and are used to give hints to further reading and to recent developments in the field such as stability or classification theory

**Model Theory** Wilfrid Hodges, 1993-03-11 Model theory is concerned with the notions of definition interpretation and structure in a very general setting and is applied to a wide range of other areas such as set theory geometry algebra and computer science This book provides an integrated introduction to model theory for graduate students

Finite Model Theory and Finite Variable Logics Eric Rosen, 1995

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 researchers

**Algebraic Model Theory** Bradd T. Hart, A. Lachlan, Matthew A. Valeriote, 2013-03-14 Recent major advances in model theory include connections between model theory and Diophantine and real analytic geometry

permutation groups and finite algebras The present book contains lectures on recent results in algebraic model theory covering topics from the following areas geometric model theory the model theory of analytic structures permutation groups in model theory the spectra of countable theories and the structure of finite algebras Audience Graduate students in logic and others wishing to keep abreast of current trends in model theory The lectures contain sufficient introductory material to be able to grasp the recent results presented     *Logic Colloquium '03* Viggo Stoltenberg-Hansen,Jouko Väänänen,2017-03-30 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again This volume the twenty fourth publication in the Lecture Notes in Logic series contains the proceedings of the European Summer Meeting of the Association for Symbolic Logic held in Helsinki Finland in August 2003 These articles include an extended tutorial on generalizing finite model theory as well as seventeen original research articles spanning all areas of mathematical logic including proof theory set theory model theory computability theory and philosophy

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