

Compactness

Definition 1. A *cover* or a *covering* of a topological space X is a family \mathcal{C} of subsets of X whose union is X . A *subcover* of a cover \mathcal{C} is a subfamily of \mathcal{C} which is a cover of X . An *open cover* of X is a cover consisting of open sets.

Definition 2. A topological space X is said to be *compact* if every open cover of X has a finite subcover. A subset S of X is said to be *compact* if S is compact with respect to the subspace topology.

Theorem 3. A subset S of a topological space X is compact if and only if every open cover of S by open sets in X has a finite subcover.

Proof. (\Rightarrow) Assume that S is a compact subset of a topology space X . Let $\{G_\alpha \mid \alpha \in \Lambda\}$ be a collection of open subset of X such that $S \subseteq \bigcup_{\alpha \in \Lambda} G_\alpha$. Let $O_\alpha = G_\alpha \cap S$ for each $\alpha \in \Lambda$. Then O_α is open in S for each $\alpha \in \Lambda$ and

$$\bigcup_{\alpha \in \Lambda} O_\alpha = \bigcup_{\alpha \in \Lambda} (G_\alpha \cap S) = (\bigcup_{\alpha \in \Lambda} G_\alpha) \cap S = S.$$

Thus $\{O_\alpha \mid \alpha \in \Lambda\}$ is an open cover of S . It follows that $\{O_\alpha \mid \alpha \in \Lambda\}$ contains a finite subcover $\{O_{\alpha_1}, O_{\alpha_2}, \dots, O_{\alpha_n}\}$. Hence

$$S = \bigcup_{i=1}^n O_{\alpha_i} = \bigcup_{i=1}^n (O_{\alpha_i} \cap S) = (\bigcup_{i=1}^n G_{\alpha_i}) \cap S.$$

Thus $S \subseteq \bigcup_{i=1}^n G_{\alpha_i}$.

(\Leftarrow) Let $\{O_\alpha \mid \alpha \in \Lambda\}$ be an open cover of (S, τ_S) . Then, for each $\alpha \in \Lambda$, there exists an open set G_α in X such that $O_\alpha = G_\alpha \cap S$. Thus

$$S = \bigcup_{\alpha \in \Lambda} O_\alpha = \bigcup_{\alpha \in \Lambda} (G_\alpha \cap S) = (\bigcup_{\alpha \in \Lambda} G_\alpha) \cap S.$$

Thus $S \subseteq \bigcup_{\alpha \in \Lambda} G_\alpha$. Then there is a finite subset $\{G_{\alpha_1}, G_{\alpha_2}, \dots, G_{\alpha_n}\}$ such that $S \subseteq \bigcup_{i=1}^n G_{\alpha_i}$. It follows that

$$S = (\bigcup_{i=1}^n G_{\alpha_i}) \cap S = \bigcup_{i=1}^n (G_{\alpha_i} \cap S) = \bigcup_{i=1}^n O_{\alpha_i}.$$

Hence (S, τ_S) is compact. □

Examples.

1. Any finite set is compact. In general, (X, τ) , where τ is finite, is compact. In particular, an indiscrete space is compact.

2. Any infinite discrete space is not compact. In fact, if X is an infinite discrete space, then $\{\{x\} \mid x \in X\}$ is an open cover of X which has no finite subcover.

3. \mathbb{R} is not compact. The class $\{(-n, n) \mid n \in \mathbb{N}\}$ is an open cover of \mathbb{R} which contains no finite subcover.

Chapter 5 Compactness Mathematical Sciences Computing

J. K. Truss



Chapter 5 Compactness Mathematical Sciences Computing:

Topics in Logic, Philosophy and Foundations of Mathematics, and Computer Science Stanisław Krajewski, Stephen Krajewski, 2007 This volume honors Professor Andrzej Grzegorzczak the nestor of Polish logicians on his 85th anniversary The editors would like to express the respect and sympathy they have for him His textbook The Outline of Mathematical Logic has been published in many editions and translated into several languages It was this textbook that introduced many of us into the world of mathematical logic Professor Grzegorzczak has made fundamental contributions to logic and to philosophy His results mainly on hierarchy of primitive recursive functions known as the Grzegorzczak hierarchy are of fundamental importance to theoretical computer science In particular they were precursory for the computational complexity theory The editors would like to stress that this special publication celebrates a scientist who is still actively pursuing genuinely innovative directions of research Quite recently Andrzej Grzegorzczak gave a new proof of undecidability of the first order functional calculus His proof does not use the arithmetization of Kurt Gödel In recognition of his merits the University of Clermont Ferrand conferred to Professor Andrzej Grzegorzczak the Doctorat Honoris Causa The work and life of Professor Andrzej Grzegorzczak is presented in the article by Professors Stanisław Krajewski and Jan Wolenski The papers in this collection have been submitted on invitational basis *Proceedings of the Fifth ACM SIGPLAN International Conference on Functional Programming (ICFP '00), Montréal, Canada, September 18-21, 2000*, 2000 LOGICS FOR COMPUTER SCIENCE, SECOND EDITION SINGH, ARINDAMA, 2018-06-01 Designed primarily as an introductory text on logic for computer science this well organized book deals with almost all the basic concepts and techniques that are pertinent to the subject It provides an excellent understanding of the logics used in computer science today Starting with the logic of propositions it gives a detailed coverage of first order logic and modal logics It discusses various approaches to the proof theory of the logics e g axiomatic systems natural deduction systems Gentzen systems analytic tableau and resolution It deals with an important application of logic to computer science namely verification of programs The book gives the flavour of logic engineering through computation tree logic a logic of model checking The book concludes with a fairly detailed discussion on nonstandard logics including intuitionistic logic Łukasiewicz logics default logic autoepistemic logic and fuzzy logic The Second Edition includes applications of compactness theorem to many interesting problems relevant to mathematics and computer science It also presents the undecidability of first order logic inexpressibility of truth and incompleteness of Peano's Arithmetic in a comprehensive and lively manner Besides students of Computer Science those offering courses in Mathematics and Philosophy would greatly benefit from this study **KEY FEATURES** Provides numerous worked out examples which not only illustrate the concepts and theory developed but also give a lead to the succeeding notions Exercises at the end of each section aim at reinforcing and mastering the techniques raising issues and preparing background for further development of the subject Problems of theoretical nature which are important for learning the subject are included at the

end of each chapter The reader is constantly provoked to work out the details promoting interactive learning *Proof And Computation: Digitization In Mathematics, Computer Science And Philosophy* Klaus Mainzer, Peter Michael Schuster, Helmut Schwichtenberg, 2018-05-30 This book is for graduate students and researchers introducing modern foundational research in mathematics computer science and philosophy from an interdisciplinary point of view Its scope includes Predicative Foundations Constructive Mathematics and Type Theory Computation in Higher Types Extraction of Programs from Proofs and Algorithmic Aspects in Financial Mathematics By filling the gap between undergraduate level textbooks and advanced research papers the book gives a scholarly account of recent developments and emerging branches of the aforementioned fields Mathematical and Computational Methods in Photonics and Phononics Habib Ammari, Brian Fitzpatrick, Hyeonbae Kang, Matias Ruiz, Sanghyeon Yu, Hai Zhang, 2018-10-15 The fields of photonics and phononics encompass the fundamental science of light and sound propagation and interactions in complex structures as well as its technological applications This book reviews new and fundamental mathematical tools computational approaches and inversion and optimal design methods to address challenging problems in photonics and phononics An emphasis is placed on analyzing sub wavelength resonators super focusing and super resolution of electromagnetic and acoustic waves photonic and phononic crystals electromagnetic cloaking and electromagnetic and elastic metamaterials and metasurfaces Throughout this book the authors demonstrate the power of layer potential techniques for solving challenging problems in photonics and phononics when they are combined with asymptotic analysis This book might be of interest to researchers and graduate students working in the fields of applied and computational mathematics partial differential equations electromagnetic theory elasticity integral equations and inverse and optimal design problems in photonics and phononics **Computational Science and Its Applications -- ICCSA 2009** Osvaldo Gervasi, David Taniar, Beniamino Murgante, Antonio Laganà, Youngsong Mun, 2009-07-09 The two volume set LNCS 5592 and 5593 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications ICCSA 2009 held in Seoul Korea in June July 2009 The two volumes contain papers presenting a wealth of original research results in the field of computational science from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques The topics of the fully refereed papers are structured according to the five major conference themes computational methods algorithms and scientific applications high performance technical computing and networks advanced and emerging applications as well as information systems and information technologies Moreover submissions from more than 20 workshops and technical sessions contribute to this publication These cover topics such as geographical analysis urban modeling spatial statistics wireless and ad hoc networking logical scientific and computational aspects of pulse phenomena in transitions high performance computing and information visualization sensor network and its applications molecular simulations structures and processes collective evolutionary systems software engineering processes and applications molecular simulations structures and processes

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Logics for Computer Science Anita Wasilewska, 2018-11-03 Providing an in depth introduction to fundamental classical and non classical logics this textbook offers a comprehensive survey of logics for computer scientists Logics for Computer Science contains intuitive introductory chapters explaining the need for logical investigations motivations for different types of logics and some of their history They are followed by strict formal approach chapters All chapters contain many detailed examples explaining each of the introduced notions and definitions well chosen sets of exercises with carefully written solutions and sets of homework While many logic books are available they were written by logicians for logicians not for computer scientists They usually choose one particular way of presenting the material and use a specialized language Logics for Computer Science discusses Gentzen as well as Hilbert formalizations first order theories the Hilbert Program Godel's first and second incompleteness theorems and their proofs It also introduces and discusses some many valued logics modal logics and introduces algebraic models for classical intuitionistic and modal S4 and S5 logics The theory of computation is based on concepts defined by logicians and mathematicians Logic plays a fundamental role in computer science and this book explains the basic theorems as well as different techniques of proving them in classical and some non classical logics Important applications derived from concepts of logic for computer technology include Artificial Intelligence and Software Engineering In addition to Computer Science this book may also find an audience in mathematics and philosophy courses and some of the chapters are also useful for a course in Artificial Intelligence SIAM Journal on Scientific Computing ,2008

Logic for Mathematics and Computer Science Stanley Burris, 1998 This text is intended for one semester courses in Logic it can also be applied to a two semester course in either Computer Science or Mathematics Departments Unlike other texts on mathematical logic that are either too advanced too sparse in examples or exercises too traditional in coverage or too philosophical in approach this text provides an elementary hands on presentation of important mathematical logic topics new and old that is readily accessible and relevant to all students of the mathematical sciences not just those in traditional pure mathematics *Computational Science and Its Applications -- ICCSA 2013* Beniamino Murgante, Sanjay Misra, Maurizio Carlini, Carmelo Torre, Hong-Quang Nguyen, David Taniar, Bernady O. Apduhan, Osvaldo Gervasi, 2013-06-22 The five volume set LNCS 7971 7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications ICCSA 2013 held in Ho Chi Minh City Vietnam in June 2013 Apart from the general track ICCSA 2013 also include 33 special sessions and workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality There are 46 papers from the general track and 202 in special sessions and workshops *Computer Science Logic* Peter G. Clote, Helmut Schwichtenberg, 2003-06-29 This book constitutes the refereed proceedings of the 13th International Workshop on Computer Science Logic CSL 2000 held in Fischbachau Germany as the 8th Annual Conference of the EACSL in August 2000 The 28

revised full papers presented together with eight invited papers were carefully reviewed and selected by the program committee. Among the topics covered are automated deduction, theorem proving, categorical logic, term rewriting, finite model theory, higher order logic, lambda and combinatory calculi, computational complexity, logic programming, constraints, linear logic, modal logic, temporal logic, model checking, formal specification, formal verification, program transformation, etc.

Mathematical Foundations of Computer Science, 1998 *Discrete Mathematics for Computer Scientists* J. K. Truss, 1991

16th Annual Symposium on Foundations of Computer Science, October 13-15, 1975, 1975 *Mathematical Reviews*, 2002 **Computer Science Logic**, 2001 **Reviews in Functional Analysis, 1980-86**, 1989 *Algebraic Methods in Logic and in Computer Science* Cecylia Rauszer, 1993 *Computers and Automation*, 1961 June issues 1955 contain Computer directory 1955 **Roster of Organizations in the Field of Automatic Computer Machinery**, 1961

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