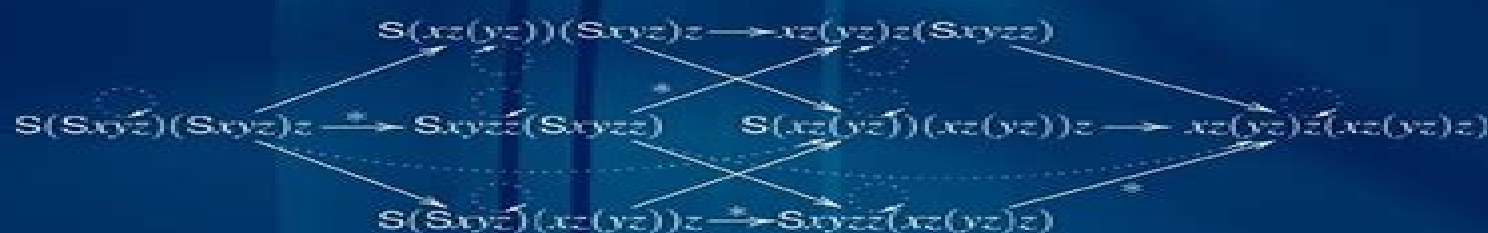


DISCRETE MATHEMATICS AND ITS APPLICATIONS

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PURE, APPLIED AND TYPED



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Logic, Language, Information, and Computation Lawrence S. Moss, Ruy de Queiroz, Maricarmen Martinez, 2018-06-26 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the refereed proceedings of the 25th Workshop on Logic Language Information and Communication WoLLIC 2018 held in Bogota Colombia in July 2018 The 16 full papers together with 3 short papers and 3 invited talks presented were fully reviewed and selected from 30 submissions The vision for the conference is to provide an annual forum which is large enough to provide meaningful interactions between logic and the sciences related to information and computation **Proof Theory** Katalin Bimbo, 2014-08-20 Although sequent calculi constitute an important category of proof systems they are not as well known as axiomatic and natural deduction systems Addressing this deficiency Proof Theory Sequent Calculi and Related Formalisms presents a comprehensive treatment of sequent calculi including a wide range of variations It focuses on sequent calculi for various non classical logics from intuitionistic logic to relevance logic linear logic and modal logic In the first chapters the author emphasizes classical logic and a variety of different sequent calculi for classical and intuitionistic logics She then presents other non classical logics and meta logical results including decidability results obtained specifically using sequent calculus formalizations of logics The book is suitable for a wide audience and can be used in advanced undergraduate or graduate courses Computer scientists will discover intriguing connections between sequent calculi and resolution as well as between sequent calculi and typed systems Those interested in the constructive approach will find formalizations of intuitionistic logic and two calculi for linear logic Mathematicians and philosophers will welcome the treatment of a range of variations on calculi for classical logic Philosophical logicians will be interested in the calculi for relevance logics while linguists will appreciate the detailed presentation of Lambek calculi and their extensions

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solutions finite state based models also called finite state machines or finite state automata have found wide use in various areas of computer science and engineering Handbook of Finite State Based Models and Applications provides a complete collection of introductory materials on finite state models *Handbook of Discrete and Computational Geometry* Csaba D. Toth, Joseph O'Rourke, Jacob E. Goodman, 2017-11-22 The Handbook of Discrete and Computational Geometry is intended as a reference book fully accessible to nonspecialists as well as specialists covering all major aspects of both fields The book offers the most important results and methods in discrete and computational geometry to those who use them in their work both in the academic world as researchers in mathematics and computer science and in the professional world as practitioners in fields as diverse as operations research molecular biology and robotics Discrete geometry has contributed significantly to the growth of discrete mathematics in recent years This has been fueled partly by the advent of powerful computers and by the recent explosion of activity in the relatively young field of computational geometry This synthesis between discrete and computational geometry lies at the heart of this Handbook A growing list of application fields includes combinatorial optimization computer aided design computer graphics crystallography data analysis error correcting codes geographic information systems motion planning operations research pattern recognition robotics solid modeling and tomography

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