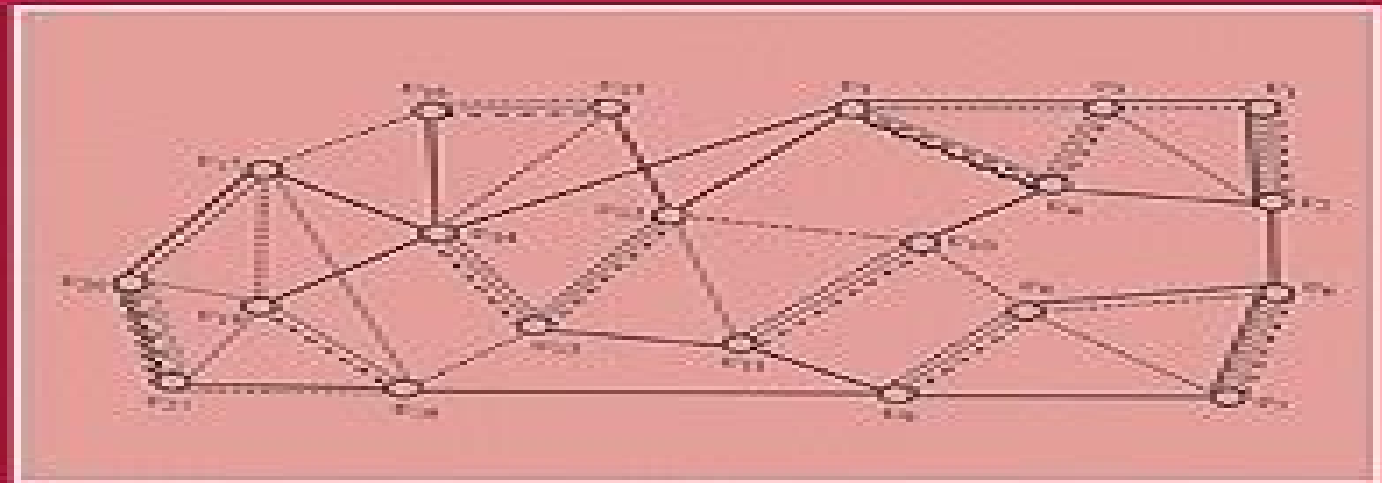


ALGORITHMIC ASPECTS OF GRAPH CONNECTIVITY

Hiroshi Nagamochi
Toshihide Ibaraki



CAMBRIDGE

Algorithmic Aspects Of Graph Connectivity Encyclopedia Of Mathematics And Its Applications

Padhraic Smyth



Algorithmic Aspects Of Graph Connectivity Encyclopedia Of Mathematics And Its Applications:

Algorithmic Aspects of Graph Connectivity Hiroshi Nagamochi, Toshihide Ibaraki, 2014-02-19 The first really thorough book to discuss this central notion in graph and network theory emphasising its algorithmic aspects *Handbook of Graph Theory, Combinatorial Optimization, and Algorithms* Krishnaiyan "KT" Thulasiraman, Subramanian Arumugam, Andreas Brandstädt, Takao Nishizeki, 2016-01-05 This handbook is the first to present a unified comprehensive treatment of graph theory combinatorial optimization and related algorithmic issues It covers numerous topics of interest in applications in electrical communication computer social transportation biological and other networks The book provides readers with the algorithmic and theoretical foundations to understand phenomena as shaped by their graph structures develop needed algorithmic and optimization tools for the study of graph structures and design and plan graph structures that lead to certain desirable behavior **Pattern Recognition on Oriented Matroids** Andrey O. Matveev, 2017-09-11 Pattern Recognition on Oriented Matroids covers a range of innovative problems in combinatorics poset and graph theories optimization and number theory that constitute a far reaching extension of the arsenal of committee methods in pattern recognition The groundwork for the modern committee theory was laid in the mid 1960s when it was shown that the familiar notion of solution to a feasible system of linear inequalities has ingenious analogues which can serve as collective solutions to infeasible systems A hierarchy of dialects in the language of mathematics for instance open cones in the context of linear inequality systems regions of hyperplane arrangements and maximal covectors or tope of oriented matroids provides an excellent opportunity to take a fresh look at the infeasible system of homogeneous strict linear inequalities the standard working model for the contradictory two class pattern recognition problem in its geometric setting The universal language of oriented matroid theory considerably simplifies a structural and enumerative analysis of applied aspects of the infeasibility phenomenon The present book is devoted to several selected topics in the emerging theory of pattern recognition on oriented matroids the questions of existence and applicability of matroidal generalizations of committee decision rules and related graph theoretic constructions to oriented matroids with very weak restrictions on their structural properties a study in which in particular interesting subsequences of the Farey sequence appear naturally of the hierarchy of the corresponding tope committees a description of the three tope committees that are the most attractive approximation to the notion of solution to an infeasible system of linear constraints an application of convexity in oriented matroids as well as blocker constructions in combinatorial optimization and in poset theory to enumerative problems on tope committees an attempt to clarify how elementary changes one element reorientations in an oriented matroid affect the family of its tope committees a discrete Fourier analysis of the important family of critical tope committees through rank and distance relations in the tope poset and the tope graph the characterization of a key combinatorial role played by the symmetric cycles in hypercube graphs Contents Oriented Matroids the Pattern Recognition Problem and Tope Committees Boolean Intervals Dehn Sommerville Type Relations Farey

Subsequences Blocking Sets of Set Families and Absolute Blocking Constructions in Posets Committees of Set Families and Relative Blocking Constructions in Posets Layers of Tope Committees Three Tope Committees Halfspaces Convex Sets and Tope Committees Tope Committees and Reorientations of Oriented Matroids Topes and Critical Committees Critical Committees and Distance Signals Symmetric Cycles in the Hypercube Graphs **Symmetric Cycles** Andrey O.

Matveev,2023-10-06 This original research monograph concerns various aspects of how based on the decompositions of vertices of hypercube graphs with respect to their symmetric cycles the vertex sets of related discrete hypercubes as well as the power sets of the corresponding ground sets emerge from rank 2 oriented matroids from underlying rank 2 systems of linear inequalities and thus literally from arrangements of straight lines crossing a common point on a piece of paper It reveals some beautiful and earlier hidden fragments in the true foundations of discrete mathematics The central observation made and discussed in the book from various viewpoints consists in that $2t$ subsets of a finite t element set E_t which form in a natural way a cyclic structure well just t subsets that are the vertices of a path in the cycle suffice allow us to construct any of $2t$ subsets of the set E_t by means of a more than elementary voting procedure expressed in basic linear algebraic terms The monograph will be of interest to researchers students and readers in the fields of discrete mathematics theoretical computer science Boolean function theory enumerative combinatorics and combinatorics on words combinatorial optimization coding theory and discrete and computational geometry *Graphs, Algorithms, and Optimization* William

Kocay,Donald L. Kreher,2016-11-03 The second edition of this popular book presents the theory of graphs from an algorithmic viewpoint The authors present the graph theory in a rigorous but informal style and cover most of the main areas of graph theory The ideas of surface topology are presented from an intuitive point of view We have also included a discussion on linear programming that emphasizes problems in graph theory The text is suitable for students in computer science or mathematics programs Lattice Sums Then and Now J. M. Borwein,2013-09-05 This comprehensive overview of

lattice sums is long overdue for a topic that is important in diverse areas of science **Aperiodic Order: Volume 1, A Mathematical Invitation** Michael Baake,Uwe Grimm,2013-08-22 Quasicrystals are non periodic solids that were discovered in 1982 by Dan Shechtman Nobel Prize Laureate in Chemistry 2011 The underlying mathematics known as the theory of aperiodic order is the subject of this comprehensive multi volume series This first volume provides a graduate level introduction to the many facets of this relatively new area of mathematics Special attention is given to methods from algebra discrete geometry and harmonic analysis while the main focus is on topics motivated by physics and crystallography In particular the authors provide a systematic exposition of the mathematical theory of kinematic diffraction Numerous illustrations and worked out examples help the reader to bridge the gap between theory and application The authors also point to more advanced topics to show how the theory interacts with other areas of pure and applied mathematics

Orthogonal Polynomials of Several Variables Charles F. Dunkl,Yuan Xu,2014-08-21 Serving both as an introduction

to the subject and as a reference this book presents the theory in elegant form and with modern concepts and notation It covers the general theory and emphasizes the classical types of orthogonal polynomials whose weight functions are supported on standard domains The approach is a blend of classical analysis and symmetry group theoretic methods Finite reflection groups are used to motivate and classify symmetries of weight functions and the associated polynomials This revised edition has been updated throughout to reflect recent developments in the field It contains 25% new material including two brand new chapters on orthogonal polynomials in two variables which will be especially useful for applications and orthogonal polynomials on the unit sphere The most modern and complete treatment of the subject available it will be useful to a wide audience of mathematicians and applied scientists including physicists chemists and engineers

Bitangential Direct and Inverse Problems for Systems of Integral and Differential Equations Damir Z.

Arov, Harry Dym, 2012-09-13 This largely self contained treatment surveys unites and extends some 20 years of research on direct and inverse problems for canonical systems of integral and differential equations and related systems Five basic inverse problems are studied in which the main part of the given data is either a monodromy matrix an input scattering matrix an input impedance matrix a matrix valued spectral function or an asymptotic scattering matrix The corresponding direct problems are also treated The book incorporates introductions to the theory of matrix valued entire functions reproducing kernel Hilbert spaces of vector valued entire functions with special attention to two important spaces introduced by L de Branges the theory of J inner matrix valued functions and their application to bitangential interpolation and extension problems which can be used independently for courses and seminars in analysis or for self study A number of examples are presented to illustrate the theory *Finite Precision Number Systems and Arithmetic* Peter Kornerup, David W.

Matula, 2010-09-30 Fundamental arithmetic operations support virtually all of the engineering scientific and financial computations required for practical applications from cryptography to financial planning to rocket science This comprehensive reference provides researchers with the thorough understanding of number representations that is a necessary foundation for designing efficient arithmetic algorithms Using the elementary foundations of radix number systems as a basis for arithmetic the authors develop and compare alternative algorithms for the fundamental operations of addition multiplication division and square root with precisely defined roundings Various finite precision number systems are investigated with the focus on comparative analysis of practically efficient algorithms for closed arithmetic operations over these systems Each chapter begins with an introduction to its contents and ends with bibliographic notes and an extensive bibliography The book may also be used for graduate teaching problems and exercises are scattered throughout the text and a solutions manual is available for instructors

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