

EIGENSPACES OF GRAPHS

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and J. A. THORP



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Eigenspaces Of Graphs

Yicheng Fang



Eigenspaces Of Graphs:

Eigenspaces of Graphs Dragoš M. Cvetković, Peter Rowlinson, Slobodan Simic, 1997-01-09 Current research on the spectral theory of finite graphs may be seen as part of a wider effort to forge closer links between algebra and combinatorics in particular between linear algebra and graph theory This book describes how this topic can be strengthened by exploiting properties of the eigenspaces of adjacency matrices associated with a graph The extension of spectral techniques proceeds at three levels using eigenvectors associated with an arbitrary labelling of graph vertices using geometrical invariants of eigenspaces such as graph angles and main angles and introducing certain kinds of canonical eigenvectors by means of star partitions and star bases One objective is to describe graphs by algebraic means as far as possible and the book discusses the Ulam reconstruction conjecture and the graph isomorphism problem in this context Further problems of graph reconstruction and identification are used to illustrate the importance of graph angles and star partitions in relation to graph structure Specialists in graph theory will welcome this treatment of important new research *Eigenspaces of Graphs* Dragoš M. Cvetković, Peter Rowlinson, Slobodan Simić, 1997 This book describes the spectral theory of finite graphs

Structural, Syntactic, and Statistical Pattern Recognition Niels da Vitoria Lobo, 2008-11-24 This book constitutes the refereed proceedings of the 12th International Workshop on Structural and Syntactic Pattern Recognition SSPR 2008 and the 7th International Workshop on Statistical Techniques in Pattern Recognition SPR 2008 held jointly in Orlando FL USA in December 2008 as a satellite event of the 19th International Conference of Pattern Recognition ICPR 2008 The 56 revised full papers and 42 revised poster papers presented together with the abstracts of 4 invited papers were carefully reviewed and selected from 175 submissions The papers are organized in topical sections on graph based methods probabilistic and stochastic structural models for PR image and video analysis shape analysis kernel methods recognition and classification applications ensemble methods feature selection density estimation and clustering computer vision and biometrics pattern recognition and applications pattern recognition as well as feature selection and clustering Locating Eigenvalues in Graphs Carlos Hoppen, David P. Jacobs, Vilmar Trevisan, 2022-09-22 This book focuses on linear time eigenvalue location algorithms for graphs This subject relates to spectral graph theory a field that combines tools and concepts of linear algebra and combinatorics with applications ranging from image processing and data analysis to molecular descriptors and random walks It has attracted a lot of attention and has since emerged as an area on its own Studies in spectral graph theory seek to determine properties of a graph through matrices associated with it It turns out that eigenvalues and eigenvectors have surprisingly many connections with the structure of a graph This book approaches this subject under the perspective of eigenvalue location algorithms These are algorithms that given a symmetric graph matrix M and a real interval I return the number of eigenvalues of M that lie in I Since the algorithms described here are typically very fast they allow one to quickly approximate the value of any eigenvalue which is a basic step in most applications of spectral graph theory Moreover these

algorithms are convenient theoretical tools for proving bounds on eigenvalues and their multiplicities which was quite useful to solve longstanding open problems in the area This book brings these algorithms together revealing how similar they are in spirit and presents some of their main applications This work can be of special interest to graduate students and researchers in spectral graph theory and to any mathematician who wishes to know more about eigenvalues associated with graphs It can also serve as a compact textbook for short courses on the topic

Eigenvectors of Graphs David L. Powers, CLARKSON UNIV POTSDAM NY., 1986 Let z be an eigenvector of the adjacency matrix A of a connected graph G Say a vertex is positive nonnegative zero etc if the same is true of the corresponding element of z If z is an eigenvector for the second largest eigenvalue of A it is known that the nonnegative vertices of G form a connected subgraph This separation of vertices according to sign provides the basis for studying the structure of G as revealed by its eigenvectors inequalities on the number of edges joining positive and negative vertices bounds on the number of zero vertices bounds on multiplicities and some description of the variability of the elements of z The rows of an eigenmatrix provide a mapping of the vertices of G into m dimensional euclidean space Some graphs thus draw themselves This phenomenon is especially interesting if the graph is the skeleton of a polytope

Chip-firing Games with Dirichlet Eigenvalues and Discrete Green's Functions Robert Byron Ellis, 2002

Discrete Mathematical Chemistry Pierre Hansen, P. W. Fowler, Maolin Zheng, 2000 Twenty nine papers from the March 1998 workshop connect issues between chemistry discrete mathematics and computer science Participants discussed theoretical problems of chemistry expressed by discrete mathematics chemical graph algorithms coding theory applied to chemistry applications of discrete mathematics in the chemical industry open problems and directions for research in discrete mathematical chemistry and software for discrete mathematical chemistry Specific topics include isomorphism rejection in structure generation programs fast embeddings for planar molecular graphs geometric symmetry and chemical equivalence and numerical solution of the Laplace equation in chemical space Annotation copyrighted by Book News Inc Portland OR

Recent Results in the Theory of Graph Spectra D.M. Cvetkovic, M. Doob, I. Gutman, A. Torgašev, 1988-01-01 The purpose of this volume is to review the results in spectral graph theory which have appeared since 1978 The problem of characterizing graphs with least eigenvalue 2 was one of the original problems of spectral graph theory The techniques used in the investigation of this problem have continued to be useful in other contexts including forbidden subgraph techniques as well as geometric methods involving root systems In the meantime the particular problem giving rise to these methods has been solved almost completely This is indicated in Chapter 1 The study of various combinatorial objects including distance regular and distance transitive graphs association schemes and block designs have made use of eigenvalue techniques usually as a method to show the nonexistence of objects with certain parameters The basic method is to construct a graph which contains the structure of the combinatorial object and then to use the properties of the eigenvalues of the graph Methods of this type are given in Chapter 2 Several topics have been included in Chapter 3

including the relationships between the spectrum and automorphism group of a graph the graph isomorphism and the graph reconstruction problem spectra of random graphs and the Shannon capacity problem Some graph polynomials related to the characteristic polynomial are described in Chapter 4 These include the matching distance and permanental polynomials Applications of the theory of graph spectra to Chemistry and other branches of science are described from a mathematical viewpoint in Chapter 5 The last chapter is devoted to the extension of the theory of graph spectra to infinite graphs

Journal of Combinatorics, Information & System Sciences ,1992 *Pattern Recognition and Image Analysis* ,2005

Simple Eigenvalues of Graphs and Digraphs Krystal Jing Guo,2015 The spectra of graphs and their relation to graph properties have been well studied For digraphs in contrast there are relatively few results The adjacency matrix of a digraph is usually difficult to work with it is not always diagonalizable and the interlacing theorem does not hold in general for adjacency matrices of digraphs All acyclic digraphs have the same spectrum as the empty graph This motivates the need to work with a different matrix which captures the adjacency of the digraph To this end we introduce the Hermitian adjacency matrix Another way to extract more information out of the spectrum is by restricting to specific classes of digraphs In this thesis we look at vertex transitive digraphs with simple eigenvalues Intuitively the property of having many simple eigenvalues tends to coincide with having few automorphisms For example the only vertex transitive graph with all eigenvalues simple is K_2 In the case of graphs we restrict to the cubic vertex transitive case where we find combinatorial properties of graphs with multiple simple eigenvalues We also explore the eigenvectors of vertex transitive digraphs with all eigenvalues distinct *Discussiones Mathematicae* ,1998 [On Graph Isomorphism and the PageRank Algorithm](#)

Christopher J. Augeri,2008 Graphs express relationships among objects such as the radio connectivity among nodes in unmanned vehicle swarms Some applications may rank a swarm's nodes by their relative importance for example using the PageRank algorithm applied in certain search engines to order query responses The PageRank values of the nodes correspond to a unique eigenvector that can be computed using the power method an iterative technique based on matrix multiplication The first result is a practical lower bound on the PageRank algorithm's execution time that is derived by applying assumptions to the PageRank perturbation's scaling value and the PageRank vector's required numerical precision The second result establishes nodes contained in the same block of the graph's coarsest equitable partition must have equal PageRank values The third result the AverageRank algorithm ensures such nodes are assigned equal PageRank values The fourth result the ProductRank algorithm reduces the time needed to find the PageRank vector by eliminating certain dot products in the power method if the graph's coarsest equitable partition contains blocks composed of multiple vertices The fifth result the QuotientRank algorithm uses a quotient matrix induced by the coarsest equitable partition to further reduce the time needed to compute a swarm's PageRank vector [Graph Theory Notes of New York](#) ,2002 **The Journal of**

Combinatorial Mathematics and Combinatorial Computing ,2000 *Journal of Algebraic Combinatorics* ,2001

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