

Access Free The Art Of Domination D S 2 Ella Dominguez Free Download Pdf

Topics in Domination in Graphs Topics on Domination Structures of Domination in Graphs Connected Dominating Set: Theory and Applications **Graph-Theoretic Concepts in Computer Science** Using Dominating Sets to Improve the Performance of Mobile Ad Hoc Networks Studies in Graph Theory: Support Domination in Graphs and Related Concepts Graph-Theoretic Concepts in Computer Science **Algorithms and Discrete Applied Mathematics** Algorithmic Aspects in Information and Management **Algorithms and Data Structures** **Topics in Combinatorics and Graph Theory** LATIN 2008: Theoretical Informatics **Theory and Applications of Models of Computation** Graph-Theoretic Concepts in Computer Science Intelligent and Fuzzy Systems New Frontiers in Graph Theory Algorithms -- ESA 2004 **Computer Science - Theory and Applications** SOFSEM 2006: Theory and Practice of Computer Science **Advanced Computing, Networking and Informatics- Volume 2** Fundamentals of Domination in Graphs International Journal of Mathematical Combinatorics, Volume 3, 2017 International Journal of Mathematical Combinatorics, Volume 4, 2018 MATHEMATICAL COMBINATORICS, Vol. 4 / 2018 International Journal of Mathematical Combinatorics, Volume 3, 2018 **Constraints in Computational Logics** Macroscale Models of Flow Through Highly Heterogeneous Porous Media Algorithms, Software, Architecture **Graph-theoretic Concepts in Computer Science** **Mathematical Foundations of Computer Science 2014** **Critical Information Infrastructures Security** **Advances in Database Technology - EDBT 2006** **Advanced Data Mining and Applications** **Theoretical Computer Science and Discrete Mathematics** **Engaging Modern Brunei** **Networking And Mobile Computing** Foundations of Information Technology in the Era of Network and Mobile Computing **Domination Games Played on Graphs** Applications of Discrete Mathematics

Constraints in Computational Logics Aug 06 2020 This volume constitutes the proceedings of the First International Conference on Constraints in Computational Logics, CCL '94, held in Munich, Germany in September 1994. Besides abstracts or full papers of the 5 invited talks by senior researchers, the book contains revised versions of the 21 accepted research papers selected from a total of 52 submissions. The volume assembles high quality original papers covering major theoretical and practical issues of combining and extending programming paradigms, preferably by using constraints. The topics covered include symbolic constraints, set constraints, numerical constraints, multi-paradigm programming, combined calculi, constraints in rewriting,

deduction, symbolic computations, and working systems.

Advanced Data Mining and Applications Dec 30 2019 This book constitutes the proceedings of the 10th International Conference on Advanced Data Mining and Applications, ADMA 2014, held in Guilin, China during December 2014. The 48 regular papers and 10 workshop papers presented in this volume were carefully reviewed and selected from 90 submissions. They deal with the following topics: data mining, social network and social media, recommend systems, database, dimensionality reduction, advance machine learning techniques, classification, big data and applications, clustering methods, machine learning, and data mining and database.

Applications of Discrete Mathematics Jun 23 2019

Fundamentals of Domination in Graphs Jan 11 2021 "Provides the first comprehensive treatment of theoretical, algorithmic, and application aspects of domination in graphs-discussing fundamental results and major research accomplishments in an easy-to-understand style. Includes chapters on domination algorithms and NP-completeness as well as frameworks for domination."

International Journal of Mathematical Combinatorics, Volume 4, 2018

Nov 08 2020 The mathematical combinatorics is a subject that applying combinatorial notion to all mathematics and all sciences for understanding the reality of things in the universe. The International J. Mathematical Combinatorics is a fully refereed international journal, sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly, which publishes original research papers and survey articles in all aspects of mathematical combinatorics, Smarandache multi-spaces, Smarandache geometries, non-Euclidean geometry, topology and their applications to other sciences.

LATIN 2008: Theoretical Informatics Oct 20 2021 This proceedings volume examines a range of topics in theoretical computer science, including automata theory, data compression, logic, machine learning, mathematical programming, parallel and distributed computing, quantum computing and random structures.

Graph-Theoretic Concepts in Computer Science Jun 27 2022 This book constitutes the thoroughly refereed post-proceedings of the 31st International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2005, held in Metz, France in June 2005. The 38 revised full papers presented together with 2 invited papers were carefully selected from 125 submissions. The papers provide a wealth of new results for various classes of graphs, graph computations, graph algorithms, and graph-theoretical applications in various fields. The workshop aims at uniting theory and practice by demonstrating how graph-theoretic concepts can be applied to various areas in Computer Science, or by extracting new problems from applications. The goal is to present recent research results and to identify and explore directions of future research.
International Journal of Mathematical Combinatorics, Volume 3, 2018

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Sep 06 2020 The International J. Mathematical Combinatorics is a fully refereed international journal, sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly, which publishes original research papers and survey articles in all aspects of mathematical combinatorics, Smarandache multi-spaces, Smarandache geometries, non-Euclidean geometry, topology and their applications to other sciences.

Mathematical Foundations of Computer Science 2014 Apr 01 2020 This two volume set LNCS 8634 and LNCS 8635 constitutes the refereed conference proceedings of the 39th International Symposium on Mathematical Foundations of Computer Science, MFCS 2014, held in Budapest, Hungary, in August 2014. The 95 revised full papers presented together with 6 invited talks were carefully selected from 270 submissions. The focus of the conference was on following topics: Logic, Semantics, Automata, Theory of Programming, Algorithms, Complexity, Parallel and Distributed Computing, Quantum Computing, Automata, Grammars and Formal Languages, Combinatorics on Words, Trees and Games.

Algorithms and Discrete Applied Mathematics Feb 21 2022 This book constitutes the proceedings of the 7th International Conference on Algorithms and Discrete Applied Mathematics, CALDAM 2021, which was held in Rupnagar, India, during February 11-13, 2021. The 39 papers presented in this volume were carefully reviewed and selected from 82 submissions. The papers were organized in topical sections named: approximation algorithms; parameterized algorithms; computational geometry; graph theory; combinatorics and algorithms; graph algorithms; and computational complexity.

International Journal of Mathematical Combinatorics, Volume 3, 2017

Dec 10 2020 Topics in detail to be covered are: Smarandache multi-spaces with applications to other sciences, such as those of algebraic multi-systems, multi-metric spaces; Smarandache geometries; Differential Geometry; Geometry on manifolds; Topological graphs; Algebraic graphs; Random graphs; Combinatorial maps; Graph and map enumeration; Combinatorial designs; Combinatorial enumeration; Low

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Dimensional Topology; Differential Topology; Topology of Manifolds; Geometrical aspects of Mathematical Physics and Relations with Manifold Topology; Applications of Smarandache multi-spaces to theoretical physics; Applications of Combinatorics to mathematics and theoretical physics.

Critical Information Infrastructures Security Mar 01 2020 This book constitutes revised selected papers from the 10th International Conference on Critical Information Infrastructures Security, CRITIS 2015, held in Berlin, Germany, in October 2015. The 18 full and 6 short papers presented in this volume were carefully reviewed and selected from 54 submissions. They are organized in topical sections named: critical information infrastructure protection; critical infrastructure resilience assessment; emergency management: critical infrastructure preparedness; modelling, simulation and analysis approaches; electric grid protection and resilience; and CIPRNet young CRITIS award candidate papers.

Studies in Graph Theory: Support Domination in Graphs and Related Concepts Apr 25 2022

Engaging Modern Brunei Oct 27 2019 This book explores issues shaping and defining modern Bruneian identity. It addresses the research gap regarding Brunei studies in terms of the language, literature, and culture of Brunei which, with its bilingual education, is uniquely positioned at the intersection of the Malay and western worlds. The book analyses the linguistic, literary, and cultural modes that provide the backdrop for modern-day instantiations of local identity, as expressed through printed and online materials, film, art, and social practices. It compares Brunei English and Brunei Malay in the context of the literature and culture of Brunei. Readers will find it useful as an essential resource for academic scholars, university students, and others interested in the study of Brunei Darussalam's language, literature, and culture. It provides critical insights from an insiders' perspective into the local identity of the culturally diverse Bruneian society.

Advanced Computing, Networking and Informatics- Volume 2 Feb 09 2021 Advanced Computing, Networking and Informatics are three

distinct and mutually exclusive disciplines of knowledge with no apparent sharing/overlap among them. However, their convergence is observed in many real world applications, including cyber-security, internet banking, healthcare, sensor networks, cognitive radio, pervasive computing amidst many others. This two-volume proceedings explore the combined use of Advanced Computing and Informatics in the next generation wireless networks and security, signal and image processing, ontology and human-computer interfaces (HCI). The two volumes together include 148 scholarly papers, which have been accepted for presentation from over 640 submissions in the second International Conference on Advanced Computing, Networking and Informatics, 2014, held in Kolkata, India during June 24-26, 2014. The first volume includes innovative computing techniques and relevant research results in informatics with selective applications in pattern recognition, signal/image processing and HCI. The second volume on the other hand demonstrates the possible scope of the computing techniques and informatics in wireless communications, networking and security.

Structures of Domination in Graphs Aug 30 2022 This volume comprises 17 contributions that present advanced topics in graph domination, featuring open problems, modern techniques, and recent results. The book is divided into 3 parts. The first part focuses on several domination-related concepts: broadcast domination, alliances, domatic numbers, dominator colorings, irredundance in graphs, private neighbor concepts, game domination, varieties of Roman domination and spectral graph theory. The second part covers domination in hypergraphs, chessboards, and digraphs and tournaments. The third part focuses on the development of algorithms and complexity of signed, minus and majority domination, power domination, and alliances in graphs. The third part also includes a chapter on self-stabilizing algorithms. Of extra benefit to the reader, the first chapter includes a glossary of commonly used terms. The book is intended to provide a reference for established researchers in the fields of domination and graph theory and graduate students who wish to gain knowledge of the topics covered as well as an overview of the major accomplishments and proof techniques used in the field.

Theoretical Computer Science and Discrete Mathematics Nov 28 2019 This volume constitutes the refereed post-conference proceedings of the International Conference on Theoretical Computer Science and Discrete Mathematics, held in Krishnankoil, India, in December 2016. The 57 revised full papers were carefully reviewed and selected from 210 submissions. The papers cover a broad range of topics such as line graphs and its generalizations, large graphs of given degree and diameter, graphoidal covers, adjacency spectrum, distance spectrum, b-coloring, separation dimension of graphs and hypergraphs, domination in graphs, graph labeling problems, subsequences of words and Parike matrices, lambda-design conjecture, graph algorithms and interference model for wireless sensor networks.

Networking And Mobile Computing Sep 26 2019 This book constitutes the refereed proceedings of the 3rd International Conference on Computer Network and Mobile Computing held in Zhangjiajie, China, in August 2005. The 133 revised full papers and 2 keynote articles presented were carefully reviewed and selected from 662 submissions. They are organized in topical sections on sensor networks, 3G/B3G networks, peer-to-peer systems, caching and routing, wireless networks, multicast, ad hoc networks, algorithms, security, peer-to-peer systems and Web service, traffic and network management, QoS, routing, internet application, TCP/IP and measurement, design and performance analysis, agent-based algorithms, and security algorithms.

Algorithmic Aspects in Information and Management Jan 23 2022 This volume constitutes the proceedings of the 11th International Conference on Algorithmic Aspects in Information and Management, AAIM 2016, held in Bergamo, Italy, in July 2016. The 18 revised full papers presented were carefully reviewed and selected from 41 submissions. The papers deal with current trends of research on algorithms, data structures, operation research, combinatorial optimization and their applications.

SOFSEM 2006: Theory and Practice of Computer Science Mar 13 2021 This book constitutes the refereed proceedings of the 32nd Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2006, held in Merin, Czech Republic in January 2006. The 45 revised full

papers, including the best Student Research Forum paper, presented together with 10 invited contributions were carefully reviewed and selected from 157 submissions. The papers were organized in four topical tracks on computer science foundations, wireless, mobile, ad hoc and sensor networks, database technologies, and semantic Web technologies.

New Frontiers in Graph Theory Jun 15 2021 Nowadays, graph theory is an important analysis tool in mathematics and computer science. Because of the inherent simplicity of graph theory, it can be used to model many different physical and abstract systems such as transportation and communication networks, models for business administration, political science, and psychology and so on. The purpose of this book is not only to present the latest state and development tendencies of graph theory, but to bring the reader far enough along the way to enable him to embark on the research problems of his own. Taking into account the large amount of knowledge about graph theory and practice presented in the book, it has two major parts: theoretical researches and applications. The book is also intended for both graduate and postgraduate students in fields such as mathematics, computer science, system sciences, biology, engineering, cybernetics, and social sciences, and as a reference for software professionals and practitioners.

MATHEMATICAL COMBINATORICS, Vol. 4 / 2018 Oct 08 2020 The Mathematical Combinatorics (International Book Series) is a fully refereed international book series with ISBN number on each issue, sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly comprising 110-160 pages approx. per volume, which publishes original research papers and survey articles in all aspects of Smarandache multi-spaces, Smarandache geometries, mathematical combinatorics, non-euclidean geometry and topology and their applications to other sciences.

Algorithms and Data Structures Dec 22 2021 This book constitutes the refereed proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS 2007, held in Halifax, Canada, in August 2007. The papers present original research on the theory and

application of algorithms and data structures in all areas, including combinatorics, computational geometry, databases, graphics, parallel and distributed computing.

Using Dominating Sets to Improve the Performance of Mobile Ad Hoc Networks May 27 2022 A mobile ad hoc network (MANET) is a wireless network that does not rely on any fixed infrastructure (i.e., routing facilities, such as wired networks and access points), and whose nodes must coordinate among themselves to determine connectivity and routing. Coordination in ad hoc networks includes operations such as neighborhood discovery, organization of nodes (i.e., topology control and clustering), and routing. Most mechanisms performing these operations employ broadcasting of signaling messages as the underlying mechanism. The broadcast can target a portion of the network (e.g., gathering neighborhood information), or the entire network (e.g., discovering routes on demand). The focus of this thesis is the design and analysis of algorithms that improve broadcasting and hierarchical organization in ad hoc networks. To design such algorithms, concepts from domination in graphs are explored, because of their similarities to the problems arising with the broadcasting of signaling and data in MANETs.

Theory and Applications of Models of Computation Sep 18 2021 This book constitutes the refereed proceedings of the 12th Annual Conference on Theory and Applications of Models of Computation, TAMC 2014, held in Singapore, in May 2015. The 35 revised full papers presented were carefully reviewed and selected from 78 submissions. The papers treat all topics relating to the theory and applications of models computation, for example recursion theory and mathematical logic; computational complexity and Boolean functions; graph theory; quantum computing; parallelism and statistics; learning, automata and probabilistic models; parameterised complexity.

Topics in Combinatorics and Graph Theory Nov 20 2021 Graph Theory is a part of discrete mathematics characterized by the fact of an extremely rapid development during the last 10 years. The number of graph theoretical paper as well as the number of graph theorists

increase very strongly. The main purpose of this book is to show the reader the variety of graph theoretical methods and the relation to combinatorics and to give him a survey on a lot of new results, special methods, and interesting informations. This book, which grew out of contributions given by about 130 authors in honour to the 70th birthday of Gerhard Ringel, one of the pioneers in graph theory, is meant to serve as a source of open problems, reference and guide to the extensive literature and as stimulant to further research on graph theory and combinatorics.

Topics on Domination Sep 30 2022 The contributions in this volume are divided into three sections: theoretical, new models and algorithmic. The first section focuses on properties of the standard domination number $\gamma(G)$, the second section is concerned with new variations on the domination theme, and the third is primarily concerned with finding classes of graphs for which the domination number (and several other domination-related parameters) can be computed in polynomial time.
Graph-Theoretic Concepts in Computer Science Mar 25 2022 The 35th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2009) took place at Montpellier (France), June 24–26 2009. About 80 computer scientists from all over the world (Australia, Belgium, Canada, China, Czech Republic, France, Germany, Greece, Israel, Japan, Korea, The Netherlands, Norway, Spain, UK, USA) attended the conference.

Since 1975, it has taken place 20 times in Germany, four times in The Netherlands, twice in Austria, as well as once in Italy, Slovakia, Switzerland, the Czech Republic, France, Norway, and the UK. The conference aims at uniting theory and practice by demonstrating how graph-theoretic concepts can be applied to various areas in computer science, or by extracting new problems from applications. The goal is to present recent research results and to identify and explore directions of future research. The conference is well-balanced with respect to established researchers and young scientists. There were 69 submissions. Each submission was reviewed by at least three, and on average four, Program Committee members. The Committee decided to accept 28 papers. Due to the

competition and the limited schedule, some good papers could not be accepted.

The program also included excellent invited talks: one given by Daniel Kràlon "Algorithms for Classes of Graphs with Bounded Expansion," the other by David Eppstein on "Graph-Theoretic Solutions to Computational Geometry Problems." The proceedings contains two survey papers on these topics.

Computer Science - Theory and Applications Apr 13 2021 This book constitutes the proceedings of the 11th International Computer Science Symposium in Russia, CSR 2016, held in St. Petersburg, Russia, in June 2016. The 28 full papers presented in this volume were carefully reviewed and selected from 71 submissions. In addition the book contains 4 invited lectures. The scope of the proposed topics is quite broad and covers a wide range of areas such as: include, but are not limited to: algorithms and data structures; combinatorial optimization; constraint solving; computational complexity; cryptography; combinatorics in computer science; formal languages and automata; computational models and concepts; algorithms for concurrent and distributed systems, networks; proof theory and applications of logic to computer science; model checking; automated reasoning; and deductive methods.

Connected Dominating Set: Theory and Applications Jul 29 2022 The connected dominating set has been a classic subject studied in graph theory since 1975. Since the 1990s, it has been found to have important applications in communication networks, especially in wireless networks, as a virtual backbone. Motivated from those applications, many papers have been published in the literature during last 15 years. Now, the connected dominating set has become a hot research topic in computer science. In this book, we are going to collect recent developments on the connected dominating set, which presents the state of the art in the study of connected dominating sets. The book consists of 16 chapters. Except the 1st one, each chapter is devoted to one problem, and consists of three parts, motivation and overview, problem complexity analysis, and approximation algorithm designs, which will lead the reader to see

clearly about the background, formulation, existing important research results, and open problems. Therefore, this would be a very valuable reference book for researchers in computer science and operations research, especially in areas of theoretical computer science, computer communication networks, combinatorial optimization, and discrete mathematics.

Algorithms, Software, Architecture Jun 03 2020 Paperback. This volume presents contributed and invited papers presented in the following three program streams: Software Development and Maintenance, Algorithms and Efficient Computation, and From Architectures to Chips. The papers on Software Engineering focus on formal methods, the usefulness of object-oriented system design, and the future of tools and environments. The papers on Efficient Algorithms address a wide range of algorithm design issues from text retrieval to e.g. parallel and distributed computing, and show considerable progress in the design of general techniques and algorithm libraries. The papers on Computer Architectures address developments in concurrent processing, formal design methods and languages, and performance aspects.

Advances in Database Technology - EDBT 2006 Jan 29 2020 This book constitutes the refereed proceedings of the 10th International Conference on Extending Database Technology, EDBT 2006, held in Munich, Germany, in March 2006. The 60 revised research papers presented together with eight industrial application papers, 20 software demos, and three invited contributions were carefully reviewed and selected from 352 submissions. The papers are organized in topical sections.

Macroscale Models of Flow Through Highly Heterogeneous Porous Media Jul 05 2020 The book was planned in such a manner that two basic goals would be reached. On the one hand, the goal was to show some new results in the field of modeling transport through highly heterogeneous media, based on the homogenization

homogenization theory. theory. Multiple Multiple new new mathematical mathematical models models of of transport transport are are presented presented herein, herein, studying studying their their properties, properties, developing developing methods methods to to compute compute effective effective parameters parameters of of the the averaged averaged media, media, simulation simulation of of cell cell problems, problems, using using new new models models to to simulate simulate some some practical practical problems. problems. High High heterogeneity heterogeneity being being subjected subjected to to the the homogenization homogenization procedure, procedure, generates generates non-local non-local phenomena phenomena and and then then gives gives a a possibility possibility to to develop develop a a new, new, non-local non-local (or (or "dynamic"), "dynamic"), theory theory of of transport transport in in porous porous media. media.

Topics in Domination in Graphs Nov 01 2022 This volume comprises 16 contributions that present advanced topics in graph domination, featuring open problems, modern techniques, and recent results. The focus is on primary dominating sets such as paired domination, connected domination, restrained domination, dominating functions, Roman domination, and power domination. Additionally, surveys include known results with a sample of proof techniques for each parameter. Of extra benefit to the reader, the first chapter includes a glossary of commonly used terms; the second chapter provides an overview of models of domination from which the parameters are defined. The book is intended to provide a reference for established researchers in the fields of domination and graph theory and graduate students who wish to gain knowledge of the topics covered as well as an overview of the major accomplishments in the field and proof techniques used.

Graph-Theoretic Concepts in Computer Science Aug 18 2021 This book constitutes the thoroughly refereed post-workshop proceedings of the 26th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2000, held in Konstanz, Germany, in June 2000. The 26 revised full papers presented together with two invited contributions were carefully reviewed and selected from 51 submissions. The papers

provide a wealth of new results for various classes of graphs, graph computations, graph algorithms and graph-theoretical applications in various fields.

Foundations of Information Technology in the Era of Network and Mobile Computing Aug 25 2019 Foundations of Information Technology in the Era of Network and Mobile Computing is presented in two distinct but interrelated tracks: -Algorithms, Complexity and Models of Computation; -Logic, Semantics, Specification and Verification. This volume contains 45 original and significant contributions addressing these foundational questions, as well as 4 papers by outstanding invited speakers. These papers were presented at the 2nd IFIP International Conference on Theoretical Computer Science (TCS 2002), which was held in conjunction with the 17th World Computer Congress, sponsored by the International Federation for Information Processing (IFIP), and which convened in Montréal, Québec, Canada in August 2002.

Algorithms -- ESA 2004 May 15 2021 This book constitutes the refereed proceedings of the 12th Annual European Symposium on Algorithms, ESA 2004, held in Bergen, Norway, in September 2004. The 70 revised full papers presented were carefully reviewed from 208 submissions. The scope of the papers spans the entire range of algorithmics from design and mathematical issues to real-world applications in various fields, and engineering and analysis of algorithms.

Domination Games Played on Graphs Jul 25 2019 This concise monograph present the complete history of the domination game and its variants up to the most recent developments and will stimulate research on closely related topics, establishing a key reference for future developments. The crux of the discussion surrounds new methods and ideas that were developed within the theory, led by the imagination strategy, the Continuation Principle, and the discharging method of Bujtás, to prove results about domination game invariants. A toolbox of proof techniques is provided for the reader to obtain results on the domination game and its variants. Powerful proof methods such as the imagination strategy are presented. The Continuation Principle is developed, which provides a much-used monotonicity property of the

game domination number. In addition, the reader is exposed to the discharging method of Bujtás. The power of this method was shown by improving the known upper bound, in terms of a graph's order, on the (ordinary) domination number of graphs with minimum degree between 5 and 50. The book is intended primarily for students in graph theory as well as established graph theorists and it can be enjoyed by anyone with a modicum of mathematical maturity. The authors include exact results for several families of graphs, present what is known about the domination game played on subgraphs and trees, and provide the reader with the computational complexity aspects of domination games. Versions of the games which involve only the “slow” player yield the Grundy domination numbers, which connect the topic of the book with some concepts from linear algebra such as zero-forcing sets and minimum rank. More than a dozen other related games on graphs and hypergraphs are presented in the book. In all these games there are problems waiting to be solved, so the area is rich for further research. The domination game belongs to the growing family of competitive optimization graph games. The game is played by two competitors who take turns adding a vertex to a set of chosen vertices. They collaboratively produce a special structure in the underlying host graph, namely a dominating set. The two players have complementary goals: one seeks to minimize the size of the chosen set while the other player tries to make it as large as possible. The game is not one that is either won or lost. Instead, if both players employ an optimal strategy that is

consistent with their goals, the cardinality of the chosen set is a graphical invariant, called the game domination number of the graph. To demonstrate that this is indeed a graphical invariant, the game tree of a domination game played on a graph is presented for the first time in the literature.

Graph-theoretic Concepts in Computer Science May 03 2020
Intelligent and Fuzzy Systems Jul 17 2021 This book presents recent research in intelligent and fuzzy techniques on digital transformation and the new normal, the state to which economies, societies, etc. settle following a crisis bringing us to a new environment. Digital transformation and the new normal-appearing in many areas such as digital economy, digital finance, digital government, digital health, and digital education are the main scope of this book. The readers can benefit from this book for preparing for a digital “new normal” and maintaining a leadership position among competitors in both manufacturing and service companies. Digitizing an industrial company is a challenging process, which involves rethinking established structures, processes, and steering mechanisms presented in this book. The intended readers are intelligent and fuzzy systems researchers, lecturers, M.Sc., and Ph.D. students studying digital transformation and new normal. The book covers fuzzy logic theory and applications, heuristics, and metaheuristics from optimization to machine learning, from quality management to risk management, making the book an excellent source for researchers.