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The Journal of Graph Theory is devoted to a variety of topics in graph theory, such as structural results about graphs, graph algorithms with theoretical emphasis, and discrete optimization on graphs. Read the journal's full aims and scope

Journal of Graph Theory - Wiley Online Library

A fuzzy graph G is a pair (σ,μ) where σ is a fuzzy subset of S and μ is a fuzzy relation on S such that μ(u,v)≤σ(u)∧σ(v). In this paper, the center problems on fuzzy graphs are studied.

(PDF) Fuzzy Graph Theory, A survey - ResearchGate

The Journal of Graph Theory is devoted to a variety of topics in graph theory, such as structural results about graphs, graph algorithms with theoretical emphasis, and discrete optimization on graphs. The scope of the journal also includes related areas in combinatorics and the interaction of graph theory with other mathematical sciences.

Journal of Graph Theory - Wiley Online Library

fuzzy graph is the crisp graph Gα = (V,Eα) with Eα = {{i,j}/i,j V,μ ij≥α}. In crisp case the edge chromatic number of a graph is either or +1 where is the maximum vertex degree. Here we define fuzzy edge chromatic number as a fuzzy number as follows: Definition 4.1: For a fuzzy graph Ĝ = (V,μ), its edge

FUZZY GRAPH COLORING USING CUTS - eaas-journal.org

The journal brings together the leading-edge research on fuzzy set theory, fuzzy logic, soft computing and related topics to present original research of high quality. This perspective acknowledges the complexity of fuzzy computation as an interface between fuzzy mathematics and applications operating in parallel over different subject fields as well as the inherent characteristic of mathematical modelling.

International Journal of Fuzzy Computation and Modelling ...

Kauffman introduced fuzzy graphs using Zadeh's fuzzy relation. Fuzzy-graph theory is growing rapidly, with numerous applications in many domains, including networking, communication, data mining, clustering, image capturing, image segmentation, planning, and scheduling.

Fuzzy Graph Structures with Application

by Kauffmann in 1973 .One of the first important papers on fuzzy graph theory was by Azriel Rosenfeld[4]. Rosenfeld introduce and examined such concepts as paths , connectedness , bridges , cut vertices , forests and trees [2]. A fuzzy graph is the generalisation of the crisp graph. Therefore it is natural many

Fuzzy Magic Graphs -A Brief Study

The concepts of strong arc, partial cutnode, bridge and block are introduced. A new type of fuzzy

labeling graphs called �-fuzzy labeling graphs is defined. Likewise, this paper generalizes the...

(PDF) A Study on Fuzzy Labeling Graphs - ResearchGate

The fuzzy graph H = (v,τ) is called a partial fuzzy subgraph of G = (μ, ρ) if v ⊆ μ and τ ⊆ ρ. Similarly, the fuzzy graph H = (P, v, τ) is called a fuzzy subgraph of G = (V, μ, ρ) induced by P if P ⊆ V, v(x) = μ(x) for all x ∈ P and τ(x, y) = ρ(x, y) for all x, y ∈ P. For the sake of simplicity, we sometimes call H a fuzzy subgraph of G.

Fuzzy Graphs | SpringerLink

Since its launching in 1978, the journal Fuzzy Sets and Systems has been devoted to the international advancement of the theory and application of fuzzy sets and systems. The theory of fuzzy sets now encompasses a well organized corpus of basic notions including (and not restricted to) aggregation operations, a generalized theory of relations, specific measures of information content, a calculus of fuzzy numbers.

Fuzzy Sets and Systems - Journal - Elsevier

This book provides a timely overview of fuzzy graph theory, laying the foundation for future applications in a broad range of areas. It introduces readers to fundamental theories, such as Craine's work on fuzzy interval graphs, fuzzy analogs of Marczewski's theorem, and the Gilmore and Hoffman characterization.

Fuzzy Graph Theory | Sunil Mathew | Springer

Let (V, μ, ρ) be a fuzzy graph. We now provide two popular ways of defining the distance between a pair of vertices. One way is to define the "distance" dis (x, y) between x and y as the length of the shortest strongest path between them.

Applications of Fuzzy Graphs | SpringerLink

His current research interests include decision analysis, type-2 fuzzy theory, information fusion, computing with words, and granular computing. Dr. Qin currently serves as an Associate Editor for the International Journal of Fuzzy Systems, the International Journal of Computational Intelligence Systems, and Granular Computing.

Journal of Fuzzy Extension and Applications - Editorial Board

Abstract Fuzzy rough set theory is a hybrid method that deals with vagueness and uncertainty emphasized

in decision-making. In this research study, we apply the concept of fuzzy rough sets to graphs. We introduce the notion of fuzzy rough digraphs and describe some of their methods of construction.

Fuzzy Rough Graph Theory with Applications | Atlantis Press

Fuzzy graph theory was introduced by Rosenfeld in 1975 [44], ten years after the concept of fuzzy set first proposed [50]. This theory can represent all the systems properly due to the uncertainty or haziness of the parameters of systems.

Intuitionistic fuzzy threshold graphs - IOS Press

A fuzzy graph (Eq.) is knows as a fuzzy magic graph if there exist two bijective functions (Eq.) and (Eq.)]such that (Eq.) and (Eq.) for all (Eq.) where (Eq.) is a fuzzy magic constant. Additionally, we investigated that fuzzy paths, fuzzy stars and fuzzy cycles are fuzzy magic graphs.

ON THE CONSTRUCTION OF FUZZY MAGIC GRAPHS. - Free Online ...

(2019). An Efficient Coloring Algorithm for Time Detraction of Sign Image Segmentation Based on Fuzzy Graph Theory. Journal of Applied Security Research: Vol. 14, No. 2, pp. 210-226.

Journal of Applied Security Research

Intuitionistic fuzzy sets are the valuable generalization of fuzzy sets. We combine complex intuitionistic fuzzy sets with the graph theory. Complex intuitionistic fuzzy graphs have many applications in database theory, expert systems, neural networks, decision making problems, GIS-based road networks, facility location problems and so on.

This book provides a timely overview of fuzzy graph theory, laying the foundation for future applications in a broad range of areas. It introduces readers to fundamental theories, such as Craine's work on fuzzy interval graphs, fuzzy analogs of Marczewski's theorem, and the Gilmore and Hoffman characterization. It also introduces them to the Fulkerson and Gross characterization and Menger's theorem, the applications of which will be discussed in a forthcoming book by the same authors. This book also discusses in detail important concepts such as connectivity, distance and saturation in fuzzy graphs. Thanks to the good balance between the basics of fuzzy graph theory and new findings obtained by the authors, the book offers an excellent reference guide for advanced undergraduate and graduate students in mathematics, engineering and computer science, and an inspiring read for all researchers

interested in new developments in fuzzy logic and applied mathematics.

This book provides an extensive set of tools for applying fuzzy mathematics and graph theory to real-life problems. Balancing the basics and latest developments in fuzzy graph theory, this book starts with existing fundamental theories such as connectivity, isomorphism, products of fuzzy graphs, and different types of paths and arcs in fuzzy graphs to focus on advanced concepts such as planarity in fuzzy graphs, fuzzy competition graphs, fuzzy threshold graphs, fuzzy tolerance graphs, fuzzy trees, coloring in fuzzy graphs, bipolar fuzzy graphs, intuitionistic fuzzy graphs, m-polar fuzzy graphs, applications of fuzzy graphs, and more. Each chapter includes a number of key representative applications of the discussed concept. An authoritative, self-contained, and inspiring read on the theory and modern applications of fuzzy graphs, this book is of value to advanced undergraduate and graduate students of mathematics, engineering, and computer science, as well as researchers interested in new developments in fuzzy logic and applied mathematics.

In the world of mathematics and computer science, technological advancements are constantly being researched and applied to ongoing issues. Setbacks in social networking, engineering, and automation are themes that affect everyday life, and researchers have been looking for new techniques in which to solve these challenges. Graph theory is a widely studied topic that is now being applied to real-life problems. The Handbook of Research on Advanced Applications of Graph Theory in Modern Society is an essential reference source that discusses recent developments on graph theory, as well as its representation in social networks, artificial neural networks, and many complex networks. The book aims to study results that are useful in the fields of robotics and machine learning and will examine different engineering issues that are closely related to fuzzy graph theory. Featuring research on topics such as artificial neural systems and robotics, this book is ideally designed for mathematicians, research scholars, practitioners, professionals, engineers, and students seeking an innovative overview of graphic theory.

In the course of fuzzy technological development, fuzzy graph theory was identified quite early on for its importance in making things work. Two very important and useful concepts are those of granularity and of nonlinear ap proximations. The concept of granularity has evolved as a cornerstone of Lotfi A.Zadeh's theory of perception, while the concept of nonlinear approx imation is the driving force behind the success of the consumer electronics products manufacturing. It is fair to say fuzzy graph theory paved the way for engineers to build many rule-based expert systems. In the open literature, there are many papers written on the subject of fuzzy graph theory. However, there are relatively books

available on the very same topic. Professors' Mordeson and Nair have made a real contribution in putting together a very com prehensive book on fuzzy graphs and fuzzy hypergraphs. In particular, the discussion on hypergraphs certainly is an innovative idea. For an experienced engineer who has spent a great deal of time in the lab oratory, it is usually a good idea to revisit the theory. Professors Mordeson and Nair have created such a volume which enables engineers and design ers to benefit from referencing in one place. In addition, this volume is a testament to the numerous contributions Professor John N. Mordeson and his associates have made to the mathematical studies in so many different topics of fuzzy mathematics.

This book builds on two recently published books by the same authors on fuzzy graph theory. Continuing in their tradition, it provides readers with an extensive set of tools for applying fuzzy mathematics and graph theory to social problems such as human trafficking and illegal immigration. Further, it especially focuses on advanced concepts such as connectivity and Wiener indices in fuzzy graphs, distance, operations on fuzzy graphs involving t-norms, and the application of dialectic synthesis in fuzzy graph theory. Each chapter also discusses a number of key, representative applications. Given its approach, the book provides readers with an authoritative, self-contained guide to - and at the same time an inspiring read on - the theory and modern applications of fuzzy graphs. For newcomers, the book also includes a brief introduction to fuzzy sets, fuzzy relations and fuzzy graphs.

This book reports on advanced concepts in fuzzy graph theory, showing a set of tools that can be successfully applied to understanding and modeling illegal human trafficking. Building on the previous book on fuzzy graph by the same authors, which set the fundamentals for readers to understand this developing field of research, this second book gives a special emphasis to applications of the theory. For this, authors introduce new concepts, such as intuitionistic fuzzy graphs, the concept of independence and domination in fuzzy graphs, as well as directed fuzzy networks, incidence graphs and many more.

Graph theory is a specific concept that has numerous applications throughout many industries. Despite the advancement of this technique, graph theory can still yield ambiguous and imprecise results. In order to cut down on these indeterminate factors, neutrosophic logic has emerged as an applicable solution that is gaining significant attention in solving many real-life decision-making problems that involve uncertainty, impreciseness, vagueness, incompleteness, inconsistency, and indeterminacy. However, empirical research on this specific graph set is lacking. Neutrosophic Graph Theory and Algorithms is a collection of innovative research on the methods and applications of neutrosophic sets

and logic within various fields including systems analysis, economics, and transportation. While highlighting topics including linear programming, decision-making methods, and homomorphism, this book is ideally designed for programmers, researchers, data scientists, mathematicians, designers, educators, researchers, academicians, and students seeking current research on the various methods and applications of graph theory.

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.

Telephony is gaining momentum in the daily lives of individuals and in the activities of all companies. With the great trend towards telephony networks, whether analogue or digital known as Voice over IP (VoIP), the number of calls an individual can receive becomes considerably high.

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.

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