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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  $(S, R)$  where  $S$  is a fuzzy subset of  $S$  and  $R$  is a fuzzy relation on  $S$  such that  $R(u, v) \leq \min(S(u), S(v))$ . 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.

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## Journal of Graph Theory - Wiley Online Library

fuzzy graph is the crisp graph  $G = (V, E)$  with  $E = \{(i, j) / i, j \in V, \mu_{ij} > 0\}$ . In crisp case the edge chromatic number of a graph is either  $\Delta + 1$  where  $\Delta$  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  $G = (V, \mu)$ , 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 ,

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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  $\alpha$ -fuzzy labeling graphs is defined. Likewise, this paper generalizes the...

## (PDF) A Study on Fuzzy Labeling Graphs - ResearchGate

The fuzzy graph  $H = (V, E)$  is called a partial fuzzy subgraph of  $G = (V, E)$  if  $V \subseteq V$  and  $E \subseteq E$ . Similarly, the fuzzy graph  $H = (P, v, E)$  is called a fuzzy subgraph of  $G = (V, E, \mu)$  induced by  $P \subseteq V$ ,  $v(x) = \mu(x)$  for all  $x \in P$  and  $\mu(x, y) = \mu(x, y)$  for all  $x, y \in P$ . 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

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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  $(V, \mu, \nu)$  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"  $\text{dis}(x, y)$  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.

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## 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 known 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.

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