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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

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 $\mu(u, v) \leq \sigma(u) \wedge \sigma(v)$. In this paper, the center problems on fuzzy graphs are studied.

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International Journal of Fuzzy Computation and Modelling ...

fuzzy graph is the crisp graph $G_\alpha = (V, E_\alpha)$ with $E_\alpha = \{\{i, j\} / i, j \in V, \mu_{ij} \geq \alpha\}$. 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 $\hat{G} = (V, \mu)$, its edge

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The notion of T-fuzzy graph introduced by J. Mordeson et al. in [11]. Now, in this paper, some types of T-fuzzy graphs are considered, fuzzy adjacency matrix of that T-fuzzy graphs is obtained.

(PDF) A Study on Fuzzy Labeling Graphs - ResearchGate

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Fuzzy Sets and Systems - Journal - Elsevier

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Journal of Algebra and Related Topics

Abstract. A graph is a pair (V, R) , where V is a set and R is a relation on V . The elements of V are thought of as vertices of the graph and the elements of R are thought of as the edges. Similarly, any fuzzy relation ρ on a fuzzy subset μ of a set V can be regarded as defining a weighted graph, or fuzzy graph, where the edge $(x, y) \in V \times V$ has weight or strength $\rho(x, y) \in [0, 1]$.

Fuzzy Graphs | SpringerLink

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. In particular, we consider applications of fuzzy rough digraphs....

Fuzzy Rough Graph Theory with Applications | Atlantis Press

Definition 3. (see [1]). A fuzzy graph is a pair of functions and . An adjacency matrix of a fuzzy graph is defined as follows: Definition 4. (see [1]). An adjacency matrix, of a fuzzy graph , is an matrix defined as such that . The adjacency matrix for the fuzzy graph in Figure 4 is Blue et al. [1] further introduced five types of fuzzy graphs, i.e., taxonomy of fuzzy graphs.

Preference Graph of Potential Method as a Fuzzy Graph

In the open literature, there are many papers written on the subject of fuzzy graph theory. However, there are relatively few books available on the very same topic. Professors' Mordeson and Nair have...

Fuzzy Graphs and Fuzzy Hypergraphs - John N. Mordeson ...

Harinath and Lavanya discussed fuzzy graph structures for wheel, helm, and star graphs [26]. In this article, we present a new framework to handle fuzzy information by combining fuzzy sets with graph structures. We introduce many basic notions concerning fuzzy-graph structures and investigate a few related properties.

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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.

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