

## Fuzzy Graphs And Fuzzy Hypergraphs Studies In Fuzziness And Soft Computing

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### Fuzzy Graphs And Fuzzy Hypergraphs

Fuzzy Graphs and Fuzzy Hypergraphs (Studies in Fuzziness and Soft Computing) Hardcover – May 19, 2000 by John N. Mordeson (Author)

### Fuzzy Graphs and Fuzzy Hypergraphs (Studies in Fuzziness ...

An Application of Fuzzy Graphs to the Problem Concerning Group Structure. Connectedness of a Fuzzy Graph. Weakening and Strengthening Points of a Fuzzy Directed Graph.- References.- Fuzzy Hypergraphs: Fuzzy Hypergraphs.- Fuzzy Transversals of Fuzzy Hypergraphs. Properties of  $Tr(H)$ . Construction of  $H_3$ .- Coloring of Fuzzy Hypergraphs. beta-degree ...

### Fuzzy Graphs and Fuzzy Hypergraphs / Edition 1 by John N ...

Fuzzy Graphs and Fuzzy Hypergraphs. Usually dispatched within 3 to 5 business days. Usually dispatched within 3 to 5 business days. 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 approximations.

### Fuzzy Graphs and Fuzzy Hypergraphs | John N. Mordeson ...

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 few books available on the very same topic. Professors' Mordeson and Nair have made a real contribution in putting together a very comprehensive book on fuzzy graphs and fuzzy hypergraphs.

### Fuzzy Graphs and Fuzzy Hypergraphs | SpringerLink

In such cases, it is natural to deal with the uncertainty using the methods of fuzzy sets and fuzzy logic. Hypergraphs (Berge, 1989) are the generalization of graphs in case of set of multiarity relations. It means the expansion of graph models for the modeling complex systems.

### Fuzzy Graphs and Fuzzy Hypergraphs: Computer Science & IT ...

Fuzzy Graphs and Fuzzy Hypergraphs Leonid S. Bershtein, Alexander V. Bozhenyuk Graph theory has numerous applications to problems in systems analysis, operations research, economics, and transportation. However, in many cases, some aspects of a graph-theoretic problem may be uncertain.

## **[PDF] Fuzzy Graphs and Fuzzy Hypergraphs | Semantic Scholar**

Fuzzy Graphs and Fuzzy Hypergraphs. 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...

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

Fuzzy Graphs and Fuzzy Hypergraphs John N. Mordeson, Premchand S. Nair (auth.), John N. Mordeson, Premchand S. Nair (eds.) In the course of fuzzy technological development, fuzzy graph theory was identified quite early on for its importance in making things work.

## **Fuzzy Graphs and Fuzzy Hypergraphs | John N. Mordeson ...**

Category of  $(P, \text{OM})$  L-Fuzzy Graphs and Hypergraphs 53 It is obvious that  $\delta$  is well-defined and since each  $\mu_i$  is non-trivial for  $i = 1, 2, \dots, n$ , we conclude that  $\delta$  is also non-trivial.

## **(PDF) CATEGORY OF $(P, \text{OM})$ L-FUZZY GRAPHS AND HYPERGRAPHS**

For the sake of simplicity, we sometimes call  $H$  a fuzzy subgraph of  $G$ . It is worth noticing that a fuzzy subgraph  $(P, \nu, \tau)$  of a fuzzy graph  $(V, \mu, \rho)$  is in fact a special case of a partial fuzzy subgraph obtained as follows.

## **Fuzzy Graphs | SpringerLink**

Fuzzy mathematics forms a branch of mathematics related to fuzzy set theory and fuzzy logic. It started in 1965 after the publication of Lotfi Asker Zadeh's seminal work Fuzzy sets. A fuzzy subset  $A$  of a set  $X$  is a function  $A: X \rightarrow L$ , where  $L$  is the interval  $[0, 1]$ . This function is also called a membership function. A membership function is a generalization of a characteristic function or an ...

## **Fuzzy mathematics - Wikipedia**

Intuitionistic fuzzy graphs and intuitionistic fuzzy digraphs are special cases of the intuitionistic fuzzy hypergraphs. Proof. An intuitionistic fuzzy graph on a set  $V$  is a pair  $H = (V, E)$ , where  $E$  is a symmetric intuitionistic fuzzy subset of  $V \times V$ . That is,  $\mu_B: V \times V \rightarrow [0, 1]$  and for each  $x$  and  $y$  in  $V$ , we have  $\mu_B(x, y) = \mu_B(y, x)$ ,  $\nu_B(x, y) = \nu_B(y, x)$ .

## **Intuitionistic fuzzy hypergraphs with applications ...**

Graph theory has found many application areas in science, engineering, and mathematics. In order to expand the application base, the notion of a graph was generalized to that of a hypergraph, that is, a set  $X$  of vertices together with a collection of subsets of  $X$ . In this chapter, we fuzzify the notion of a hypergraph and state some possible applications.

## **Fuzzy Hypergraphs | SpringerLink**

In this Chapter, we define intuitionistic fuzzy hypergraphs, dual intuitionistic fuzzy hypergraphs, intuitionistic fuzzy line graphs, and 2-section of an intuitionistic fuzzy hypergraph.

## **Hypergraphs in Intuitionistic Fuzzy Environment | Request PDF**

Since  $\delta$  is well-defined, a fuzzy digraph has at most two edges (which must have opposite orientation) between any two vertices. Therefore fuzzy graphs and fuzzy digraphs are special cases of fuzzy hypergraphs. A fuzzy multigraph is a multivalued symmetric mapping  $A: X \times X \rightarrow [0, 1]$ .

## **1AEC - DTIC**

A fuzzy hypergraph or hypergraph relates to a set of granules and their relations in a specific granularity, and a series of hypergraphs correspond to a hierarchical structure. Based on granular structures, the mapping between fuzzy hypergraphs or hypergraphs presents the relations of the granules in different levels.

## **An application of fuzzy hypergraphs and hypergraphs in ...**

Akram et al. [1–3, 5, 8, 34] introduced many new concepts including intuitionistic fuzzy hypergraphs, strong IFGs, intuitionistic fuzzy cycles, intuitionistic fuzzy trees, intuitionistic fuzzy planar graph, and double domination on IFGs. Clearly, further research on IFGs is becoming a research pot now.

## **Intuitionistic fuzzy threshold graphs - IOS Press**

In the course of fuzzy technological development, fuzzy graph theory was identified quite early on for its importance in making things work. Professors' Mordeson and Nair have made a real contribution in putting together a very comprehensive book on fuzzy graphs and fuzzy hypergraphs.

## **Fuzzy graphs and fuzzy hypergraphs (Book, 2000) [WorldCat.org]**

We introduce certain types of intuitionistic fuzzy directed hypergraphs (IFDHGs) including core, simple, elementary, sectionally elementary IFDHGs and  $(\mu, \nu)$ -tempered IFDHGs, and present some of their properties.

## **Certain types of intuitionistic fuzzy directed hypergraphs**

mathematics Article New Concepts in Intuitionistic Fuzzy Graph with Application in Water Supplier Systems Zehui Shao 1, Saeed Kosari 1,, Hossein Rashmanlou 2 and Muhammad Shoaib 3 1 Institute of Computing Science and Technology, Guangzhou University, Guangzhou 510006, China; zshao@gzhu.edu.cn 2 Mazandaran Adib Institute of Higher Education, Sari 48175, Iran; h.rashmanlou@stu.umz.ac.ir

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