

## 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 H3.- 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 ap proximations.

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

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.

### Fuzzy Graphs and Fuzzy Hypergraphs | SpringerLink

In case of modelling systems with fuzzy binary and multilarity relations between objects, transition to fuzzy hypergraphs, which combine advantages both fuzzy and graph models, is more natural. It allows to realise formal optimisation and logical procedures.

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

Fuzzy Graphs and Fuzzy Hypergraphs Leonid S. Bershtein, Alexander V. Bozhenyuk Graph theory has numerous application 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 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 ...

Fuzzy Graphs and Fuzzy Hypergraphs John N. Mordeson, Premchand S. Nair The authors present an up-to-date account of results from fuzzy graph theory and fuzzy hypergraph theory and give applications of the results. The book should be of interest to research mathematicians and to engineers and computer scientists interested in applications.

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

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 and useful concepts are those of granularity and of nonlinear ap proximations.

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

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

### (PDF) CATEGORY OF (P OM ) L-FUZZY GRAPHS AND HYPERGRAPHS

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 ...

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

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 com prehensive book on fuzzy graphs and fuzzy hypergraphs.

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

Some specific application areas presented from fuzzy graph theory are cluster analysis, pattern classification, database theory, and the problem concerning group structure. Applications of fuzzy hypergraph theory to portfolio management, managerial decision making with an example to waste management, and to neural cell-assemblies are given.

### Fuzzy Graphs and Fuzzy Hypergraphs (eBook, 2000) [WorldCat ...

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

This paper introduces the concept of a bipolar fuzzy line graph of a bipolar fuzzy hypergraph and some of the properties of the bipolar fuzzy line graph of a bipolar fuzzy hypergraph are also examined. ... Berge, C. Graphs and Hypergraphs. North-Holland, Amsterdam, 1973. 4. Bhattacharya, P. Some Remarks on Fuzzy Graphs.

### Bipolar Fuzzy Line Graph of a Bipolar Fuzzy Hypergraph in ...

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

Mordeson / Nair. Fuzzy Graphs and Fuzzy Hypergraphs. 1st Edition. Softcover version of original hardcover edition 2000, 2010. Buch, 978-3-7908-2471-1. Bücher schnell und portofrei

### Mordeson / Nair | Fuzzy Graphs and Fuzzy Hypergraphs | 1st ...

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 and useful concepts are those of granularity and of nonlinear ap- proximations.

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

hypergraphs can model more general types of relations than binary relations. The notion of hypergraphs has been extended in fuzzy theory and the concept of fuzzy hypergraphs was proposed by Lee-Kwang and S.M.Chen. The concept of an intuitionistic fuzzy graph (IFG) was introduced by Atanassov [1,2,3,4].