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April 15th, 2020 - 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 the concept of granularity has evolved as a cornerstone of lotfi a zadeh s theory of perception while the concept of nonlinear approximation is the driving' 'fuzzy mathematics an introduction for engineers and

May 23rd, 2020 - lotfi s algebra of fuzzy subsets of a set struck me as very nice in fact as a graduate student in the mid 1950 s i had suggested similar ideas about continuous truth valued propositional calculus inffor and sup for or to my advisor but he didn t go for it and in fact confused it with the foundations of probability theory so i ended up writing a thesis in a more conventional area'

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May 13th, 2020 - in fuzzy set theory classical bivalent sets are usually called crisp sets the fuzzy set theory can be used in a wide range of domains in which information is inplete or imprecise such as bioinformatics mathematical logic is a subfield of mathematics exploring the applications of formal logic to mathematics'

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May 31st, 2020 - fuzzy logic is a form of many valued logic in which the truth values of variables may be any real number between 0 and 1 both inclusive it is employed to handle the concept of partial truth where the truth value may range between pletely true and pletely false by contrast in boolean logic the truth values of variables may only be the integer values 0 or 1'

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May 21st, 2020 - this requires the development of a new theory of fuzzy graphs involving an arbitrary t norm in the basic definition of a fuzzy graph there is very little known about this type of fuzzy graph the purpose of this paper is to further develop this type of fuzzy graph we concentrate on the relatively new concept of fuzzy incidence graphs full'

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May 27th, 2020 - 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 μ on a fuzzy subset S of a set V can be regarded as defining a weighted graph or fuzzy graph where the edge $(x, y) \in S \times S$ has weight or strength $\mu(x, y)$ $0 \leq \mu(x, y) \leq 1$ ' 'pattern match query over fuzzy rdf graph sciencedirect

May 21st, 2020 - 3 1 fuzzy set theory and fuzzy graph fuzzy set theory is originally introduced by zadeh in for modeling sets whose boundaries are not clear cut in fuzzy set theory an element belongs to a set with certain membership degree which

is measured by a membership function in the real unit interval $[0, 1]$

'domination in products of fuzzy graphs international

May 12th, 2020 - in this paper we discuss several operations on fuzzy graphs such as union join position cartesian product and study their domination parameters domination in products of fuzzy graphs international journal of uncertainty fuzziness and knowledge based systems'

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April 10th, 2020 - after introducing and developing fuzzy set theory a lot of studies have been done in this field and then a result appeared as a fuzzy graph bination of graph theory and fuzzy set theory this is now known as fuzzy graph theory in this article we review essential works on different types of fuzzy graph and fuzzy hyper graph'

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May 14th, 2020 - bioinformatics but to much less extent than graph theory and machine learning we believe there is much bigger potential for fuzzy set theory and fuzzy logic in bioinformatics in this paper we will discuss why fuzzy concepts and methods can play a more important role in studying biological problems we will present two examples of using the '**advanced topics in fuzzy graph theory john n mordeson**

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May 14th, 2020 - 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 puter science and an inspiring read for all researchers interested in new developments in fuzzy logic and applied mathematics'

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generalized fundamentals of the fuzzy logic based generalized theory of decisions studies in fuzziness and'

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'an approach for approximate subgraph matching in fuzzy rdf

April 24th, 2020 - a fuzzy rdf data graph may contain both fuzzy vertices resp edges and crisp vertices resp edges as a fuzzy vertex resp edge with a degree of 0 or 1 can be considered as crisp along the same line a crisp rdf graph is simply a special case of fuzzy rdf data graph where $\mu_{ij} \in \{0, 1\}$ for all $i, j \in V$ and $\mu_{ij} \in [0, 1]$ for all $i, j \in V$

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May 29th, 2020 - 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 $\mu_A: X \rightarrow [0, 1]$ 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''novel applications of intuitionistic fuzzy digraphs in

December 29th, 2016 - fuzzy graph theory is finding an increasing number of applications in modeling real time systems where the level of information inherent in the system varies with different levels of precision fuzzy models are being useful because of their aim of reducing the differences between the traditional numerical models used in engineering and sciences and the symbolic models used in expert systems'

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May 21st, 2020 - 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'

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May 31st, 2020 - this book also discusses in detail important concepts such as connectivity distance and saturation in fuzzy graphs lt p gt lt p gt 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 puter science and an inspiring'

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