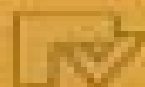


STUDIES IN FUZZINESS  
AND SOFT COMPUTING

# in Fuzziness and Soft Computing

John N. Mordeson  
Premchand N. Nair

## Fuzzy Graphs and Fuzzy Hypergraphs



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# Fuzzy Graphs And Fuzzy Hypergraphs

**Anam Luqman, Muhammad  
Akram, Florentin Smarandache**



## **Fuzzy Graphs And Fuzzy Hypergraphs:**

*Fuzzy Graphs and Fuzzy Hypergraphs* John N. Mordeson, Premchand S. Nair, 2000-04-26 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 force behind the success of the consumer electronics products manufacturing 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 In particular the discussion on hypergraphs certainly is an innovative idea For an experienced engineer who has spent a great deal of time in the laboratory it is usually a good idea to revisit the theory Professors Mordeson and Nair have created such a volume which enables engineers and designers to benefit from referencing in one place In addition this volume is a testament to the numerous contributions Professor John N Mordeson and his associates have made to the mathematical studies in so many different topics of fuzzy mathematics

**Fuzzy Graphs and Fuzzy Hypergraphs** John N. Mordeson, Premchand S. Nair, 2014-09-01 *Fuzzy Hypergraphs and Fuzzy Intersection Graphs* William L. Craine, 1993

*Fuzzy Hypergraphs and Related Extensions* Muhammad Akram, Anam Luqman, 2020-02-01 This book presents the fundamental and technical concepts of fuzzy hypergraphs and explains their extensions and applications It discusses applied generalized mathematical models of hypergraphs including complex intuitionistic bipolar m polar fuzzy Pythagorean complex Pythagorean and q rung orthopair hypergraphs as well as single valued neutrosophic complex neutrosophic and bipolar neutrosophic hypergraphs In addition the book also sheds light on real world applications of these hypergraphs making it a valuable resource for students and researchers in the field of mathematics as well as computer and social scientists

**Handbook of Research on Advanced Applications of Graph Theory in Modern Society** Pal, Madhumangal, Samanta, Suman, Pal, Anita, 2019-08-30 In the world of mathematics and computer science technological advancements are constantly being researched and applied to ongoing issues Setbacks in social networking engineering and automation are themes that affect everyday life and researchers have been looking for new techniques in which to solve these challenges Graph theory is a widely studied topic that is now being applied to real life problems The Handbook of Research on Advanced Applications of Graph Theory in Modern Society is an essential reference source that discusses recent developments on graph theory as well as its representation in social networks artificial neural networks and many complex networks The book aims to study results that are useful in the fields of robotics and machine learning and will examine different engineering issues that are closely related to fuzzy graph theory Featuring research on topics such as artificial

neural systems and robotics this book is ideally designed for mathematicians research scholars practitioners professionals engineers and students seeking an innovative overview of graphic theory *Superhypergraph Neural Networks and Plithogenic Graph Neural Networks: Theoretical Foundations* Takaaki Fujita, Florentin Smarandache, 2025-01-01

Hypergraphs extend traditional graphs by allowing edges to connect multiple nodes while superhypergraphs further generalize this concept to represent even more complex relationships Neural networks inspired by biological systems are widely used for tasks such as pattern recognition data classification and prediction Graph Neural Networks GNNs a well established framework have recently been extended to Hypergraph Neural Networks HGNNs with their properties and applications being actively studied The Plithogenic Graph framework enhances graph representations by integrating multi valued attributes as well as membership and contradiction functions enabling the detailed modeling of complex relationships In the context of handling uncertainty concepts such as Fuzzy Graphs and Neutrosophic Graphs have gained prominence It is well established that Plithogenic Graphs serve as a generalization of both Fuzzy Graphs and Neutrosophic Graphs Furthermore the Fuzzy Graph Neural Network has been proposed and is an active area of research This paper establishes the theoretical foundation for the development of SuperHyperGraph Neural Networks SHGNNs and Plithogenic Graph Neural Networks expanding the applicability of neural networks to these advanced graph structures While mathematical generalizations and proofs are presented future computational experiments are anticipated Complex Neutrosophic Hypergraphs: New Social Network Models Anam Luqman, Muhammad Akram, Florentin Smarandache, 2019-09-19 A complex neutrosophic set is a useful model to handle indeterminate situations with a periodic nature This is characterized by truth indeterminacy and falsity degrees which are the combination of real valued amplitude terms and complex valued phase terms Hypergraphs are objects that enable us to dig out invisible connections between the underlying structures of complex systems such as those leading to sustainable development In this paper we apply the most fruitful concept of complex neutrosophic sets to theory of hypergraphs We define complex neutrosophic hypergraphs and discuss their certain properties including lower truncation upper truncation and transition levels Furthermore we define T related complex neutrosophic hypergraphs and properties of minimal transversals of complex neutrosophic hypergraphs Finally we represent the modeling of certain social networks with intersecting communities through the score functions and choice values of complex neutrosophic hypergraphs We also give a brief comparison of our proposed model with other existing models

*SINGLE-VALUED NEUTROSOPHIC HYPERGRAPHS* MUHAMMAD AKRAM, SUNDAS SHAHZADI, A. BORUMAND SAEID, We introduce certain concepts including single valued neutrosophic hyper graph line graph of single valued neutrosophic hypergraph dual single valued neutrosophic hypergraph and transversal single valued neutrosophic hypergraph

**Collected Papers. Volume X** Florentin Smarandache, 2022-06-01 This tenth volume of Collected Papers includes 86 papers in English and Spanish languages comprising 972 pages written between 2014 2022 by the author alone or in

collaboration with the following 105 co authors alphabetically ordered from 26 countries Abu Su an Ali Hassan Ali Safaa Sadiq Anirudha Ghosh Assia Bakali Atiqe Ur Rahman Laura Bogdan Willem K M Brauers Erick Gonz lez Caballero Fausto Cavallaro Gavril Calefariu T Chalapathi Victor Christianto Mihaela Colhon Sergiu Boris Cononovici Mamoni Dhar Irfan Deli Rebeca Escobar Jara Alexandru Gal N Gandotra Sudipta Gayen Vassilis C Gerogiannis Noel Batista Hern ndez Hongnian Yu Hongbo Wang Mihaela Iliescu F Nirmala Irudayam Sripathi Jha Darjan Karaba evi T Katican Bakhtawar Ali Khan Hina Khan Volodymyr Krasnoholovets R Kiran Kumar Manoranjan Kumar Singh Ranjan Kumar M Lathamaheswari Yasar Mahmood Nivetha Martin Adrian M rgean Octavian Melinte Mingcong Deng Marcel Migdalovici Monika Moga Sana Moin Mohamed Abdel Basset Mohamed Elhoseny Rehab Mohamed Mohamed Talea Kalyan Mondal Muhammad Aslam Muhammad Aslam Malik Muhammad Ihsan Muhammad Naveed Jafar Muhammad Rayees Ahmad Muhammad Saeed Muhammad Saqlain Muhammad Shabir Mujahid Abbas Mumtaz Ali Radu I Munteanu Ghulam Murtaza Munazza Naz Tahsin Oner Gabrijela Popovi Surapati Pramanik R Priya S P Priyadharshini Midha Qayyum Quang Thinh Bui Shazia Rana Akbara Rezaei Jes s Estupi n Ricardo R dvan Sahin Saeeda Mirvakili Said Broumi A A Salama Flavius Aurelian S rbu Ganeshsree Selvachandran Javid Shabbir Shio Gai Quek Son Hoang Le Florentin Smarandache Dragi a Stanujki S Sudha Taha Yasin Ozturk Zaigham Tahir The Houw Iong Ayse Topal Alptekin Uluta Maikel Yelandi Leyva V zquez Rizha Vitania Luige Vl d reanu Victor Vl d reanu tefan Vl du escu J Vimala Dan Valeriu Voinea Adem Yolcu Yongfei Feng Abd El Nasser H Zaied Edmundas Kazimieras Zavadskas

**Encyclopedia of Artificial Intelligence** Rabuñal Dopico, Juan Ramón, Dorado, Julian, Pazos, Alejandro, 2008-07-31 This book is a comprehensive and in depth reference to the most recent developments in the field covering theoretical developments techniques technologies among others Provided by publisher Constant single valued neutrosophic graphs with applications Naeem Jan, Lemnaouar Zedam, Tahir Mahmood, Kifayat Ullah, Said Broumi, Florentin Smarandache, In this paper we introduced a new concept of single valued neutrosophic graph SVNG known as constant single valued neutrosophic graph CSVNG Basically SVNG is a generalization of intuitionistic fuzzy graph IFG More specifically we described and explored some graph theoretic ideas related to the introduced concepts of CSVNG An application of CSVNG in a Wi Fi network system is discussed and a comparison of CSVNG with constant IFG is established showing the worth of the proposed work Further several terms like constant function and totally constant function are investigated in the frame work of CSVNG and their characteristics are studied **Concentric Plithogenic Hypergraph based on Plithogenic Hypersoft sets - A Novel Outlook** Nivetha Martin, Florentin Smarandache, 2020-06-01 Plithogenic Hypersoft sets PHS introduced by Smarandache are the extensions of soft sets and hypersoft sets and it was further protracted to plithogenic fuzzy whole Hypersoft set to make it more applicable to multi attribute decision making environment *Domination Theory And Beyond* Dr. Henry Garrett, 2023-02-01 In this research book there are some research chapters on Domination Theory And Beyond With researches on the basic properties the research book starts to

make Domination Theory And Beyond more understandable Some studies and researches about neutrosophic graphs are proposed as book in the following by Henry Garrett 2022 which is indexed by Google Scholar and has more than 2498 readers in Scribd It s titled Beyond Neutrosophic Graphs and published by Ohio E publishing Educational Publisher 1091 West 1st Ave Grandview Heights Ohio 43212 United State This research book covers different types of notions and settings in neutrosophic graph theory and neutrosophic SuperHyperGraph theory Ref Henry Garrett 2022 Beyond Neutrosophic Graphs Ohio E publishing Educational Publisher 1091 West 1st Ave Grandview Heights Ohio 43212 United States ISBN 978 1 59973 725 6 <http://fs.unm.edu/BeyondNeutrosophicGraphs.pdf> Also some studies and researches about neutrosophic graphs are proposed as book in the following by Henry Garrett 2022 which is indexed by Google Scholar and has more than 3218 readers in Scribd It s titled Neutrosophic Duality and published by Florida GLOBAL KNOWLEDGE Publishing House 848 Brickell Ave Ste 950 Miami Florida 33131 United States This research book presents different types of notions SuperHyperResolving and SuperHyperDominating in the setting of duality in neutrosophic graph theory and neutrosophic SuperHyperGraph theory This research book has scrutiny on the complement of the intended set and the intended set simultaneously It s smart to consider a set but acting on its complement that what s done in this research book which is popular in the terms of high readers in Scribd Ref Henry Garrett 2022 Neutrosophic Duality Florida GLOBAL KNOWLEDGE Publishing House 848 Brickell Ave Ste 950 Miami Florida 33131 United States ISBN 978 1 59973 743 0 <http://fs.unm.edu/NeutrosophicDuality.pdf> section Background There are some researches covering the topic of this research In what follows there are some discussion and literature reviews about them First article is titled properties of SuperHyperGraph and neutrosophic SuperHyperGraph in textbf Ref cite HG1 by Henry Garrett 2022 It s first step toward the research on neutrosophic SuperHyperGraphs This research article is published on the journal Neutrosophic Sets and Systems in issue 49 and the pages 531 561 In this research article different types of notions like dominating resolving coloring Eulerian Hamiltonian neutrosophic path n Eulerian Hamiltonian neutrosophic path zero forcing number zero forcing neutrosophic number independent number independent neutrosophic number clique number clique neutrosophic number matching number matching neutrosophic number girth neutrosophic girth 1 zero forcing number 1 zero forcing neutrosophic number failed 1 zero forcing number failed 1 zero forcing neutrosophic number global offensive alliance t offensive alliance t defensive alliance t powerful alliance and global powerful alliance are defined in SuperHyperGraph and neutrosophic SuperHyperGraph Some Classes of SuperHyperGraph and Neutrosophic SuperHyperGraph are cases of research Some results are applied in family of SuperHyperGraph and neutrosophic SuperHyperGraph Thus this research article has concentrated on the vast notions and introducing the majority of notions The seminal paper and groundbreaking article is titled neutrosophic co degree and neutrosophic degree alongside chromatic numbers in the setting of some classes related to neutrosophic hypergraphs in textbf Ref cite HG2 by Henry Garrett 2022 In this research article a novel approach is

implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on general forms without using neutrosophic classes of neutrosophic SuperHyperGraph It s published in prestigious and fancy journal is entitled Journal of Current Trends in Computer Science Research JCTCSR with abbreviation J Curr Trends Comp Sci Res in volume 1 and issue 1 with pages 06 14 The research article studies deeply with choosing neutrosophic hypergraphs instead of neutrosophic SuperHyperGraph It s the breakthrough toward independent results based on initial background The seminal paper and groundbreaking article is titled Super Hyper Dominating and Super Hyper Resolving on Neutrosophic Super Hyper Graphs and Their Directions in Game Theory and Neutrosophic Super Hyper Classes in textbf Ref cite HG3 by Henry Garrett 2022 In this research article a novel approach is implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on fundamental SuperHyperNumber and using neutrosophic SuperHyperClasses of neutrosophic SuperHyperGraph It s published in prestigious and fancy journal is entitled Journal of Mathematical Techniques and Computational Mathematics JMTCM with abbreviation J Math Techniques Comput Math in volume 1 and issue 3 with pages 242 263 The research article studies deeply with choosing directly neutrosophic SuperHyperGraph and SuperHyperGraph It s the breakthrough toward independent results based on initial background and fundamental SuperHyperNumbers In some articles are titled 0039 Closing Numbers and Super Closing Numbers as Dual Resolving and Dual Coloring alongside Dual Dominating in Neutrosophic n SuperHyperGraph in textbf Ref cite HG4 by Henry Garrett 2022 0049 Failed 1 Zero Forcing Number in Neutrosophic Graphs in textbf Ref cite HG5 by Henry Garrett 2022 Extreme SuperHyperClique as the Firm Scheme of Confrontation under Cancer s Recognition as the Model in The Setting of Neutrosophic SuperHyperGraphs in textbf Ref cite HG6 by Henry Garrett 2022 Uncertainty On The Act And Effect Of Cancer Alongside The Foggy Positions Of Cells Toward Neutrosophic Failed SuperHyperClique inside Neutrosophic SuperHyperGraphs Titled Cancer s Recognition in textbf Ref cite HG7 by Henry Garrett 2022 Neutrosophic Version Of Separates Groups Of Cells In Cancer s Recognition On Neutrosophic SuperHyperGraphs in textbf Ref cite HG8 by Henry Garrett 2022 The Shift Paradigm To Classify Separately The Cells and Affected Cells Toward The Totality Under Cancer s Recognition By New Multiple Definitions On the Sets Polynomials Alongside Numbers In The Neutrosophic SuperHyperMatching Theory Based on SuperHyperGraph and Neutrosophic SuperHyperGraph in textbf Ref cite HG9 by Henry Garrett 2022 Breaking the Continuity and Uniformity of Cancer In The Worst Case of Full Connections With Extreme Failed SuperHyperClique In Cancer s Recognition Applied in Neutrosophic SuperHyperGraphs in textbf Ref cite HG10 by Henry Garrett 2022 Neutrosophic Failed SuperHyperStable as the Survivors on the Cancer s Neutrosophic Recognition Based on Uncertainty to All Modes in Neutrosophic SuperHyperGraphs in textbf Ref cite HG11 by Henry Garrett 2022 Extremism of the Attacked Body Under the Cancer s Circumstances Where Cancer s Recognition Titled Neutrosophic SuperHyperGraphs in textbf Ref cite HG12 by Henry Garrett 2022 Neutrosophic 1 Failed SuperHyperForcing in Cancer s Recognitions And Neutrosophic SuperHyperGraphs in textbf Ref cite HG13 by Henry Garrett

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**Certain Competition Graphs Based on Intuitionistic Neutrosophic Environment** Muhammad Akram ,Maryam Nasir , The concept of intuitionistic neutrosophic sets provides an additional possibility to represent imprecise uncertain inconsistent and incomplete information which exists in reals ituations

**Homomorphism and Isomorphism in strong neutrosophic graphs** M. Mullai,Said Broumi,R.Jeyabalan, The concept of strong neutrosophic graph is developed with example and some of their properties are investigated in this paper Some

definitions homomorphism isomorphism theorems and propositions in strong neutrosophic graphs are established Basic operations like union intersection etc and complement of strong neutrosophic graphs are also derived here

**Collections of Articles** Dr. Henry Garrett, 2023-02-01 In this research book there are some research chapters on Collections of Articles With researches on the basic properties the research book starts to make Collections of Articles more understandable Some studies and researches about neutrosophic graphs are proposed as book in the following by Henry Garrett 2022 which is indexed by Google Scholar and has more than 2498 readers in Scribd It s titled Beyond Neutrosophic Graphs and published by Ohio E publishing Educational Publisher 1091 West 1st Ave Grandview Heights Ohio 43212 United State This research book covers different types of notions and settings in neutrosophic graph theory and neutrosophic SuperHyperGraph theory Ref Henry Garrett 2022 Beyond Neutrosophic Graphs Ohio E publishing Educational Publisher 1091 West 1st Ave Grandview Heights Ohio 43212 United States ISBN 978 1 59973 725 6 <http://fs.unm.edu/BeyondNeutrosophicGraphs.pdf> Also some studies and researches about neutrosophic graphs are proposed as book in the following by Henry Garrett 2022 which is indexed by Google Scholar and has more than 3218 readers in Scribd It s titled Neutrosophic Duality and published by Florida GLOBAL KNOWLEDGE Publishing House 848 Brickell Ave Ste 950 Miami Florida 33131 United States This research book presents different types of notions SuperHyperResolving and SuperHyperDominating in the setting of duality in neutrosophic graph theory and neutrosophic SuperHyperGraph theory This research book has scrutiny on the complement of the intended set and the intended set simultaneously It s smart to consider a set but acting on its complement that what s done in this research book which is popular in the terms of high readers in Scribd Ref Henry Garrett 2022 Neutrosophic Duality Florida GLOBAL KNOWLEDGE Publishing House 848 Brickell Ave Ste 950 Miami Florida 33131 United States ISBN 978 1 59973 743 0 <http://fs.unm.edu/NeutrosophicDuality.pdf> section Background There are some researches covering the topic of this research In what follows there are some discussion and literature reviews about them First article is titled properties of SuperHyperGraph and neutrosophic SuperHyperGraph in textbf Ref cite HG1 by Henry Garrett 2022 It s first step toward the research on neutrosophic SuperHyperGraphs This research article is published on the journal Neutrosophic Sets and Systems in issue 49 and the pages 531 561 In this research article different types of notions like dominating resolving coloring Eulerian Hamiltonian neutrosophic path n Eulerian Hamiltonian neutrosophic path zero forcing number zero forcing neutrosophic number independent number independent neutrosophic number clique number clique neutrosophic number matching number matching neutrosophic number girth neutrosophic girth 1 zero forcing number 1 zero forcing neutrosophic number failed 1 zero forcing number failed 1 zero forcing neutrosophic number global offensive alliance t offensive alliance t defensive alliance t powerful alliance and global powerful alliance are defined in SuperHyperGraph and neutrosophic SuperHyperGraph Some Classes of SuperHyperGraph and Neutrosophic SuperHyperGraph are cases of research Some results are applied in family of SuperHyperGraph and neutrosophic

SuperHyperGraph Thus this research article has concentrated on the vast notions and introducing the majority of notions The seminal paper and groundbreaking article is titled neutrosophic co degree and neutrosophic degree alongside chromatic numbers in the setting of some classes related to neutrosophic hypergraphs in textbf Ref cite HG2 by Henry Garrett 2022 In this research article a novel approach is implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on general forms without using neutrosophic classes of neutrosophic SuperHyperGraph It s published in prestigious and fancy journal is entitled Journal of Current Trends in Computer Science Research JCTCSR with abbreviation J Curr Trends Comp Sci Res in volume 1 and issue 1 with pages 06 14 The research article studies deeply with choosing neutrosophic hypergraphs instead of neutrosophic SuperHyperGraph It s the breakthrough toward independent results based on initial background The seminal paper and groundbreaking article is titled Super Hyper Dominating and Super Hyper Resolving on Neutrosophic Super Hyper Graphs and Their Directions in Game Theory and Neutrosophic Super Hyper Classes in textbf Ref cite HG3 by Henry Garrett 2022 In this research article a novel approach is implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on fundamental SuperHyperNumber and using neutrosophic SuperHyperClasses of neutrosophic SuperHyperGraph It s published in prestigious and fancy journal is entitled Journal of Mathematical Techniques and Computational Mathematics JMTCM with abbreviation J Math Techniques Comput Math in volume 1 and issue 3 with pages 242 263 The research article studies deeply with choosing directly neutrosophic SuperHyperGraph and SuperHyperGraph It s the breakthrough toward independent results based on initial background and fundamental SuperHyperNumbers In some articles are titled 0039 Closing Numbers and Super Closing Numbers as Dual Resolving and Dual Coloring alongside Dual Dominating in Neutrosophic n SuperHyperGraph in textbf Ref cite HG4 by Henry Garrett 2022 0049 Failed 1 Zero Forcing Number in Neutrosophic Graphs in textbf Ref cite HG5 by Henry Garrett 2022 Extreme SuperHyperClique as the Firm Scheme of Confrontation under Cancer s Recognition as the Model in The Setting of Neutrosophic SuperHyperGraphs in textbf Ref cite HG6 by Henry Garrett 2022 Uncertainty On The Act And Effect Of Cancer Alongside The Foggy Positions Of Cells Toward Neutrosophic Failed SuperHyperClique inside Neutrosophic SuperHyperGraphs Titled Cancer s Recognition in textbf Ref cite HG7 by Henry Garrett 2022 Neutrosophic Version Of Separates Groups Of Cells In Cancer s Recognition On Neutrosophic SuperHyperGraphs in textbf Ref cite HG8 by Henry Garrett 2022 The Shift Paradigm To Classify Separately The Cells and Affected Cells Toward The Totality Under Cancer s Recognition By New Multiple Definitions On the Sets Polynomials Alongside Numbers In The Neutrosophic SuperHyperMatching Theory Based on SuperHyperGraph and Neutrosophic SuperHyperGraph in textbf Ref cite HG9 by Henry Garrett 2022 Breaking the Continuity and Uniformity of Cancer In The Worst Case of Full Connections With Extreme Failed SuperHyperClique In Cancer s Recognition Applied in Neutrosophic SuperHyperGraphs in textbf Ref cite HG10 by Henry Garrett 2022 Neutrosophic Failed SuperHyperStable as the Survivors on the Cancer s Neutrosophic Recognition

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