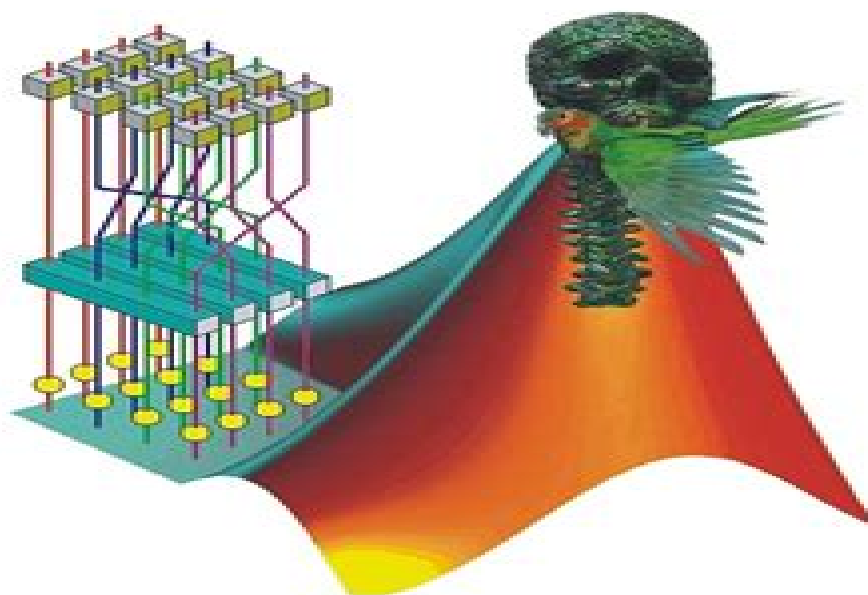


# Fundamental of Artificial Neural Network and Fuzzy Logic



Rajesh Kumar

# Fuzzy Algebra By Rajesh Kumar

**G Psacharopoulos**



## **Fuzzy Algebra By Rajesh Kumar :**

**Fuzzy Algebra** Rajesh Kumar, 1993      **Smarandache Fuzzy Algebra** W. B. Vasantha Kandasamy, 2003 The author studies the Smarandache Fuzzy Algebra which like its predecessor Fuzzy Algebra arose from the need to define structures that were more compatible with the real world where the grey areas mattered not only black or white In any human field a Smarandache  $n$  structure on a set  $S$  means a weak structure  $w_0$  on  $S$  such that there exists a chain of proper subsets  $P_{n-1} \subset P_{n-2} \subset \dots \subset P_1 \subset S$  whose corresponding structures verify the chain  $w_{n-1} \supset w_{n-2} \supset \dots \supset w_1 \supset w_0$  where  $\supset$  signifies strictly stronger i.e. structure satisfying more axioms This book is referring to a Smarandache 2 algebraic structure two levels only of structures in algebra on a set  $S$  i.e. a weak structure  $w_0$  on  $S$  such that there exists a proper subset  $P$  of  $S$  which is embedded with a stronger structure  $w_1$  Properties of Smarandache fuzzy semigroups groupoids loops bigroupoids biloops non associative rings birings vector spaces semirings semivector spaces non associative semirings bisemirings near rings non associative near ring and binear rings are presented in the second part of this book together with examples solved and unsolved problems and theorems Also applications of Smarandache groupoids near rings and semirings in automaton theory in error correcting codes and in the construction of  $S$  subbiautomaton can be found in the last chapter

**Groups, Rings And Modules With Applications** M.R. Adhikari, A. Adhikari, 2003      **Power Algebras over Semirings** Jonathan S. Golan, 2013-04-17 This monograph is a continuation of several themes presented in my previous books 146-149 In those volumes I was concerned primarily with the properties of semirings Here the objects of investigation are sets of the form  $RA$  where  $R$  is a semiring and  $A$  is a set having a certain structure The problem is one of translating that structure to  $RA$  in some natural way As such it tries to find a unified way of dealing with diverse topics in mathematics and theoretical computer science as formal language theory the theory of fuzzy algebraic structures models of optimal control and many others Another special case is the creation of idempotent analysis and similar work in optimization theory Unlike the case of the previous work which rested on a fairly established mathematical foundation the approach here is much more tentative and docimastic This is an introduction to not a definitive presentation of an area of mathematics still very much in the making The basic philosophical problem lurking in the background is one stated succinctly by Hahle and Sostak 185 to what extent basic fields of mathematics like algebra and topology are dependent on the underlying set theory The conflicting definitions proposed by various researchers in search of a resolution to this conundrum show just how difficult this problem is to see in a proper light

Fuzzy Subgroups, Fuzzy Subrings and Fuzzy Ideals Rajesh Kumar, 1993  
The Journal of Fuzzy Mathematics, 2004      Frontiers in Industrial and Applied Mathematics Rajesh Kumar Sharma, Lorenzo Pareschi, Abdon Atangana, Bikash Sahoo, Vijay Kumar Kukreja, 2023-02-02 This book publishes select papers presented at the 4th International Conference on Frontiers in Industrial and Applied Mathematics FIAM 2021 held at the Sant Longowal Institute of Engineering and Technology Longowal Punjab India from 21-22 December 2021 Most of the

papers deal with mathematical theory embedded with its applications to engineering and sciences This book illustrates numerical simulation of scientific problems and the state of the art research in industrial and applied mathematics including various computational and modeling techniques with case studies and concrete examples Graduate students and researchers who are interested in real applications of mathematics in the areas of computational and theoretical fluid dynamics solid mechanics optimization and operations research numerical analysis bio mathematics fuzzy control and systems theory dynamical systems and nonlinear analysis algebra and approximation theory will find the book useful

*Advancing Uncertain Combinatorics through Graphization, Hyperization, and Uncertainization: Fuzzy, Neutrosophic, Soft, Rough, and Beyond* Takaaki Fujita, Florentin Smarandache, 2025-01-15 This book represents the fourth volume in the series Collected Papers on Advancing Uncertain Combinatorics through Graphization Hyperization and Uncertainization Fuzzy Neutrosophic Soft Rough and Beyond This volume specifically delves into the concept of the HyperUncertain Set building on the foundational advancements introduced in previous volumes The series aims to explore the ongoing evolution of uncertain combinatorics through innovative methodologies such as graphization hyperization and uncertainization These approaches integrate and extend core concepts from fuzzy neutrosophic soft and rough set theories providing robust frameworks to model and analyze the inherent complexity of real world uncertainties At the heart of this series lies combinatorics and set theory cornerstones of mathematics that address the study of counting arrangements and the relationships between collections under defined rules Traditionally combinatorics has excelled in solving problems involving uncertainty while advancements in set theory have expanded its scope to include powerful constructs like fuzzy and neutrosophic sets These advanced sets bring new dimensions to uncertainty modeling by capturing not just binary truth but also indeterminacy and falsity In this fourth volume the integration of set theory with graph theory takes center stage culminating in graphized structures such as hypergraphs and superhypergraphs These structures paired with innovations like Neutrosophic Oversets Undersets Offsets and the Nonstandard Real Set extend the boundaries of mathematical abstraction This fusion of combinatorics graph theory and uncertain set theory creates a rich foundation for addressing the multidimensional and hierarchical uncertainties prevalent in both theoretical and applied domains The book is structured into thirteen chapters each contributing unique perspectives and advancements in the realm of HyperUncertain Sets and their related frameworks The first chapter Advancing Traditional Set Theory with Hyperfuzzy Hyperneutrosophic and Hyperplithogenic Sets explores the evolution of classical set theory to better address the complexity and ambiguity of real world phenomena By introducing hierarchical structures like hyperstructures and superhyperstructures created through iterative applications of power sets it lays the groundwork for more abstract and adaptable mathematical tools The focus is on extending three foundational frameworks Fuzzy Sets Neutrosophic Sets and Plithogenic Sets into their hyperforms Hyperfuzzy Sets Hyperneutrosophic Sets and Hyperplithogenic Sets These advanced concepts are applied across diverse fields such as statistics clustering

evolutionary theory topology decision making probability and language theory The goal is to provide a robust platform for future research in this expanding area of study The second chapter Applications and Mathematical Properties of Hyperneutrosophic and SuperHyperneutrosophic Sets extends the work on Hyperfuzzy Hyperneutrosophic and Hyperplithogenic Sets by delving into their advanced applications and mathematical foundations Building on prior research it specifically examines Hyperneutrosophic and SuperHyperneutrosophic Sets exploring their integration into Neutrosophic Logic Cognitive Maps Graph Neural Networks Classifiers and Triplet Groups The chapter also investigates their mathematical properties and applicability in addressing uncertainties and complexities inherent in various domains These insights aim to inspire innovative uses of hypergeneralized sets in modern theoretical and applied research The third chapter New Extensions of Hyperneutrosophic Sets Bipolar Pythagorean Double Valued and Interval Valued Sets studies advanced variations of Neutrosophic Sets a mathematical framework defined by three membership functions truth  $T$  indeterminacy  $I$  and falsity  $F$  By leveraging the concepts of Hyperneutrosophic and SuperHyperneutrosophic Sets the study extends Bipolar Neutrosophic Sets Interval Valued Neutrosophic Sets Pythagorean Neutrosophic Sets and Double Valued Neutrosophic Sets These extensions address increasingly complex scenarios and a brief analysis is provided to explore their potential applications and mathematical underpinnings Building on prior research the fourth chapter Hyperneutrosophic Extensions of Complex Single Valued Triangular Fermatean and Linguistic Sets expands on Neutrosophic Set theory by incorporating recent advancements in Hyperneutrosophic and SuperHyperneutrosophic Sets The study focuses on extending Complex Neutrosophic Sets Single Valued Triangular Neutrosophic Sets Fermatean Neutrosophic Sets and Linguistic Neutrosophic Sets The analysis highlights the mathematical structures of these hyperextensions and explores their connections with existing set theoretic concepts offering new insights into managing uncertainty in multidimensional challenges The fifth chapter Advanced Extensions of Hyperneutrosophic Sets Dynamic Quadripartitioned Pentapartitioned Heptapartitioned and  $m$  Polar delves deeper into the evolution of Neutrosophic Sets by exploring advanced frameworks designed for even more intricate applications New extensions include Dynamic Neutrosophic Sets Quadripartitioned Neutrosophic Sets Pentapartitioned Neutrosophic Sets Heptapartitioned Neutrosophic Sets and  $m$  Polar Neutrosophic Sets These developments build upon foundational research and aim to provide robust tools for addressing multidimensional and highly nuanced problems The sixth chapter Advanced Extensions of Hyperneutrosophic Sets Cubic Trapezoidal  $q$  Rung Orthopair Overset Underset and Offset builds upon the Neutrosophic framework which employs truth  $T$  indeterminacy  $I$  and falsity  $F$  to address uncertainty Leveraging advancements in Hyperneutrosophic and SuperHyperneutrosophic Sets the study extends Cubic Neutrosophic Sets Trapezoidal Neutrosophic Sets  $q$  Rung Orthopair Neutrosophic Sets Neutrosophic Oversets Neutrosophic Undersets and Neutrosophic Offsets The chapter provides a brief analysis of these new set types exploring their properties and potential applications in solving multidimensional problems The seventh chapter Specialized Classes of

Hyperneutrosophic Sets Support Paraconsistent and Faillibilist Sets delves into unique classes of Neutrosophic Sets extended through Hyperneutrosophic and SuperHyperneutrosophic frameworks to tackle advanced theoretical challenges The study introduces and extends Support Neutrosophic Sets Neutrosophic Intuitionistic Sets Neutrosophic Paraconsistent Sets Neutrosophic Faillibilist Sets Neutrosophic Paradoxist and Pseudo Paradoxist Sets Neutrosophic Tautological and Nihilist Sets Neutrosophic Dialetheist Sets and Neutrosophic Trivialist Sets These extensions address highly nuanced aspects of uncertainty further advancing the theoretical foundation of Neutrosophic mathematics The eight chapter MultiNeutrosophic Sets and Refined Neutrosophic Sets focuses on two advanced Neutrosophic frameworks MultiNeutrosophic Sets and Refined Neutrosophic Sets Using Hyperneutrosophic and nn SuperHyperneutrosophic Sets these extensions are analyzed in detail highlighting their adaptability to multidimensional and complex scenarios Examples and mathematical properties are provided to showcase their practical relevance and theoretical depth The ninth chapter Advanced Hyperneutrosophic Set Types Type m Nonstationary Subset Valued and Complex Refined explores extensions of the Neutrosophic framework focusing on Type m Neutrosophic Sets Nonstationary Neutrosophic Sets Subset Valued Neutrosophic Sets and Complex Refined Neutrosophic Sets These extensions utilize the Hyperneutrosophic and SuperHyperneutrosophic frameworks to address advanced challenges in uncertainty management expanding their mathematical scope and practical applications The tenth chapter Hyperfuzzy Hypersoft Sets and Hyperneutrosophic Hypersoft Sets integrates the principles of Fuzzy Neutrosophic and Soft Sets with hyperstructures to introduce Hyperfuzzy Hypersoft Sets and Hyperneutrosophic Hypersoft Sets These frameworks are designed to manage complex uncertainty through hierarchical structures based on power sets with detailed analysis of their properties and theoretical potential The eleventh chapter A Review of SuperFuzzy SuperNeutrosophic and SuperPlithogenic Sets revisits and extends the study of advanced set concepts such as SuperFuzzy Sets Super Intuitionistic Fuzzy Sets Super Neutrosophic Sets and SuperPlithogenic Sets including their specialized variants like quadripartitioned pentapartitioned and heptapartitioned forms The work serves as a consolidation of existing studies while highlighting potential directions for future research in hierarchical uncertainty modeling Focusing on decision making under uncertainty the tweve chapter Advanced SuperHypersoft and TreeSoft Sets introduces six novel concepts SuperHypersoft Rough Sets SuperHypersoft Expert Sets Bipolar SuperHypersoft Sets TreeSoft Rough Sets TreeSoft Expert Sets and Bipolar TreeSoft Sets Definitions properties and potential applications of these frameworks are explored to enhance the flexibility of soft set based models The final chapter Hierarchical Uncertainty in Fuzzy Neutrosophic and Plithogenic Sets provides a comprehensive survey of hierarchical uncertainty frameworks with a focus on Plithogenic Sets and their advanced extensions Hyperplithogenic Sets SuperHyperplithogenic Sets It examines relationships with other major concepts such as Intuitionistic Fuzzy Sets Vague Sets Picture Fuzzy Sets Hesitant Fuzzy Sets and multi partitioned Neutrosophic Sets consolidating their theoretical

interconnections for modeling complex systems This volume not only reflects the dynamic interplay between theoretical rigor and practical application but also serves as a beacon for future research in uncertainty modeling offering advanced tools to tackle the intricacies of modern challenges

**Abstract Musical Intervals** Ming Tsao, 2007 This book is an introduction to GIS Generalized Interval Systems theory that includes the major results of pitch class theory It provides mathematicians with applications of group theory to music and music theorists with the essential connections between GIS theory and pitch class theory Many of the results in pitch class theory are not addressed by David Lewin such as power functions or the Common Tone Theorem for inversions The book states those results and generalizes them to conform with GIS theory Finally it addresses recent criticisms leveled at pitch class theory and suggests how they can be addressed in GIS theory

**Boletim da Sociedade Paranaense de Matemática**, 2000 Recent Advances In Mathematics, Statistics And Computer Science

2015 - International Conference Arun Kumar Sinha, R Rajesh, Prabhat Ranjan, Rajesh Pratap Singh, 2016-06-09 This unique

volume presents the scientific achievements significant discoveries and pioneering contributions of various academicians industrialist and research scholars The book is an essential source of reference and provides a comprehensive overview of the author's work in the field of mathematics statistics and computer science

Analele științifice ale Universității "Al. I. Cuza" din Iași Universitatea "Al. I. Cuza" din Iași, 1995 **Mathematical Reviews**, 2005

*Some characterizations of S-a fuzzy semigroups by their a level subgroups* Gowri R., Rajeswari T., *Neutrosophic Sets and Systems, Book Series, Vol. 35, 2020. An International Book Series in Information Science and Engineering*

Florentin Smarandache, Mohamed Abdel-Basset, Contributors to current issue listed in papers order Ibrahim Yasser Abeer Twakol A A Abd El Khalek A A Salama Ahmed

Sharaf Al Din Issam Abu Al Qasim Rafif Alhabib Magdy Badran Remya P B Francina Shalini Masoud Ghods Zahra Rostami A

Sahaya Sudha Luiz Flavio Autran Monteiro Gomes K R Vijayalakshmi Prakasam Muralikrishna Surya Manokaran Nidhi Singh

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Rashid Agha Kashif Rajesh Kumar Saini Atul Sangal Manisha

**Neutrosophic Sets and Systems, vol. 75/2025** Florentin

Smarandache, Mohamed Abdel-Basset, Maikel Leyva-Vázquez, 2025-01-06 Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra This theory considers every notion or idea together with its opposite or negation and with their spectrum of neutralities in between them i e notions or ideas supporting neither nor The and ideas together are referred to as Neutrosophy is a generalization of Hegel s dialectics the last one is based on and only According to this theory every idea tends to be neutralized and balanced by and ideas as a state of equilibrium In a classical way are disjoint two by two But since in many cases the borders between notions are vague imprecise Sorites it is possible that and of course have common parts two by two or even all three of them as well *The Mathematics Student*

,1991 **Handbook of Research on Advancements in AI and IoT Convergence Technologies** Zhao, Jingyuan, Kumar, V. Vinoth, Natarajan, Rajesh, Mahesh, T.R., 2023-09-05 Recently the internet of things IoT has brought the vision of a smarter world into reality with a massive amount of data and numerous services With the outbreak of the COVID 19 pandemic artificial intelligence AI has gained significant attention by utilizing its machine learning algorithms for quality patient care The integration of IoT with AI may open new possibilities for both technologies and can play a big part in smart healthcare by providing improved insight into healthcare data and allowing for more inexpensive personalized care The Handbook of Research on Advancements in AI and IoT Convergence Technologies considers recent advancements in AI and IoT convergence technologies with a focus on state of the art approaches methodologies and systems for the design development deployment and innovative use of those convergence technologies It also provides insight into how to develop AI and IoT convergence techniques to meet industrial demands and covers the emerging research topics that are going to define the future of AI and IoT convergence technology development Covering key topics such as diseases smart healthcare social distance monitoring and security this major reference work is ideal for industry professionals nurses healthcare workers computer scientists policymakers researchers scholars practitioners instructors and students **Neutrosophic Sets and**

**Systems, vol. 78/2025** Florentin Smarandache, Mohamed Abdel-Basset, Maikel Leyva-Vázquez, 2025-02-15 Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra This theory considers every notion or idea together with its opposite or negation and with their spectrum of neutralities in between them i e notions or ideas supporting neither nor The and ideas together are referred to as Neutrosophy is a generalization of Hegel s



dialectics the last one is based on and only According to this theory every idea tends to be neutralized and balanced by and ideas as a state of equilibrium In a classical way are disjoint two by two But since in many cases the borders between notions are vague imprecise Sorites it is possible that and of course have common parts two by two or even all three of them as well Neutrosophic Set and Neutrosophic Logic are generalizations of the fuzzy set and respectively fuzzy logic especially of intuitionistic fuzzy set and respectively intuitionistic fuzzy logic In neutrosophic logic a proposition has a degree of truth  $T$  a degree of indeterminacy  $I$  and a degree of falsity  $F$  where  $T \cup I \cup F$  are standard or non standard subsets of  $[0, 1]$  Neutrosophic Probability is a generalization of the classical probability and imprecise probability Neutrosophic Statistics is a generalization of the classical statistics What distinguishes the neutrosophics from other fields is the which means neither nor which of course depends on can be indeterminacy neutrality tie game unknown contradiction ignorance imprecision etc

**System Reliability Analysis** Akshay Kumar, Mangey Ram, Rajesh S. Prabhu Gaonkar, Yury Klochkov, 2024-12-30 The text covers both basic and advanced techniques based on state performance systems and binary systems The chapters will highlight reliability prediction series parallel and complex modeling It presents a dynamic reliability analysis of safety critical systems using Petri nets and dynamic resource allocation modeling of software with patching The text illustrates a semi Markov analysis of systems with a Weibull interface This book discusses in a comprehensive manner the reliability centered maintenance modeling of electric vehicle systems covers the reliability modeling of multi state systems under the product development stage and the reliability assessment of a multi state degraded system examines the role of nature inspired techniques in the reliability optimization of systems explores the practical challenges and solutions for RAMS management of train control systems and showcases the methodology for the assessment of multi state system reliability of traction electric drives including overload modes It is primarily written for graduate students and academic researchers in the fields of industrial engineering systems engineering manufacturing engineering production engineering mechanical engineering and mathematics

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