

2.preliminaries

In this section, we introduce some abstraction and results in fuzzifying topology, which will be used in the outcome. For the details, we present [7,23].First we describe a verity of fuzzy logical symbols and properties. For any formulas φ , the symbol $[\varphi]$ means the truth value of φ , where the set of truth values in the unit interval $[0,1]$. A formula is valid, we write $\models \varphi$ if and only if $[\varphi]=1$ for every interpretation. Let x be a universe of discourse, and let $P(X)$ and $\mathcal{P}(X)$ denote the classes of all crisp subsets and fuzzy subsets of X , respectively, Then, for $\bar{A}, \bar{B} \in \mathcal{P}(X)$, and any $x \in X$,

- (1) $[\neg \alpha] = 1 - [\alpha]$;
 $[\alpha \wedge \beta] = \min([\alpha], [\beta])$;
 $[\alpha \rightarrow \beta] = \min(1, 1 - [\alpha] + [\beta])$;
 $[\forall x \alpha(x)] = \inf_{x \in X} [\alpha(x)]$
 $[x \in \bar{A}] = \bar{A}(x) [\exists x \alpha(x)] := [\neg(\forall x \neg \alpha(x))]$
- (2) $[\alpha \vee \beta] := [\neg(\neg \alpha \wedge \neg \beta)]$;
 $[\alpha \leftrightarrow \beta] := [(\alpha \rightarrow \beta) \wedge (\beta \rightarrow \alpha)]$;
 $[\bar{A} \subseteq \bar{B}] := [\forall x(x \in \bar{A} \rightarrow x \in \bar{B})] 0$
 $\quad = \inf_{x \in X} \min(1, 1 - \bar{A}(x) + \bar{B}(x))$;
 $[\bar{A} = \bar{B}] := [(\bar{A} \subseteq \bar{B}) \wedge (\bar{B} \subseteq \bar{A})]$;
 $[\alpha \dot{\vee} \beta] := [\neg(\alpha \rightarrow \neg \beta)] = \min(1, (\alpha) + (\beta))$;
 $[\alpha \wedge \beta] := [\neg \alpha \rightarrow \beta] = \max(0, [\alpha] + [\beta] - 1)$.

Second, we give the following definitions and results in fuzzifying topology which are useful in the rest of the present paper.

Definition 1. (cf. [7])

Let X be a set. If $\mathcal{P} \in \mathcal{P}(P(X))$ satisfies the following conditions:

- (1) $\mathcal{P}(\Phi) = 1$;
- (2) For any $A, B, \mathcal{P}(A \cap B) \geq \mathcal{P}(A) \wedge \mathcal{P}(B)$;
- (3) For any $\{A_\lambda : \lambda \in \Lambda\}, \mathcal{P}(\bigcup_{\lambda \in \Lambda} A_\lambda) \geq \bigwedge_{\lambda \in \Lambda} \mathcal{P}(A_\lambda)$.

Then \mathcal{P} is called a fuzzifying topology, (X, \mathcal{P}) is called a fuzzifying topological space, $A \in P(X)$ with $\mathcal{P}(A) > 0$ is called a fuzzifying open set (write as $A^* \mathcal{P}$), and $\mathcal{P}(A)$ is called the degree of open of A .

Definition 2. (cf.[7, 23])

Let (X, \mathcal{P}) be a fuzzifying topological space. Then

- (1) $\mathcal{P}^c \in \mathcal{P}(P(X))$, defined by $\mathcal{P}^c(A) = \mathcal{P}(X \sim A) (\forall A \in P(X))$, is called a fuzzifying cotopology, $B \in P(X)$ with $\mathcal{P}^c(B) > 0$ is called a fuzzifying closed set (write as $B^* \mathcal{P}^c$), and $\mathcal{P}^c(A)$ is called the degree of close of A , where $X \sim A$ is the complement of A .
- (2) $\mathcal{N}_x \in \mathcal{P}(P(X))$ defined by

$$\mathcal{N}_x(A) = \bigvee_{x \in B \subseteq A} \mathcal{P}(B) \quad (\forall A \in P(X))$$

is called the fuzzifying neighborhood system of a point $x \in X$, $C \in \mathcal{P}(X)$ with $\mathcal{N}_x(C) > 0$ is called a fuzzifying neighborhood of x (write as $C^* \mathcal{N}_x$), and $\mathcal{N}_x(C)$ is called the degree of C being a neighborhood of x .

- (3) The fuzzifying cluster operator $Cl(A) \in \mathcal{P}(X)$ of a set $A \subseteq X$ is defined by $Cl(A)(x) = 1 - \mathcal{N}_x(X \sim A) (\forall x \in X)$, and $Cl(A)(x)$ is called the degree of x being a cluster point of A .
- (4) The fuzzifying interior operator $Int(A) \in \mathcal{P}(X)$ of a set $A \subseteq X$ is defined by $Int(A)(x) = \mathcal{N}_x(X \sim A) (\forall x \in X)$, and $Int(A)(x)$ is called the degree of x being an interior point of A .

Fuzzy Algebra By Rajesh Kumar

M.R. Adhikari,A. Adhikari



Fuzzy Algebra By Rajesh Kumar :

Fuzzy Algebra Rajesh Kumar, 1993 Fuzzy Subgroups, Fuzzy Subrings and Fuzzy Ideals 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} in P_{n-2} in P_{n-3} in P_{n-4} in P_{n-5} in P_{n-6} in P_{n-7} in P_{n-8} in P_{n-9} in P_{n-10} in P_{n-11} in P_{n-12} in P_{n-13} in P_{n-14} in P_{n-15} in P_{n-16} in P_{n-17} in P_{n-18} in P_{n-19} in P_{n-20} in P_{n-21} in P_{n-22} in P_{n-23} in P_{n-24} in P_{n-25} in P_{n-26} in P_{n-27} in P_{n-28} in P_{n-29} in P_{n-30} in P_{n-31} in P_{n-32} in P_{n-33} in P_{n-34} in P_{n-35} in P_{n-36} in P_{n-37} in P_{n-38} in P_{n-39} in P_{n-40} in P_{n-41} in P_{n-42} in P_{n-43} in P_{n-44} in P_{n-45} in P_{n-46} in P_{n-47} in P_{n-48} in P_{n-49} in P_{n-50} in P_{n-51} in P_{n-52} in P_{n-53} in P_{n-54} in P_{n-55} in P_{n-56} in P_{n-57} in P_{n-58} in P_{n-59} in P_{n-60} in P_{n-61} in P_{n-62} in P_{n-63} in P_{n-64} in P_{n-65} in P_{n-66} in P_{n-67} in P_{n-68} in P_{n-69} in P_{n-70} in P_{n-71} in P_{n-72} in P_{n-73} in P_{n-74} in P_{n-75} in P_{n-76} in P_{n-77} in P_{n-78} in P_{n-79} in P_{n-80} in P_{n-81} in P_{n-82} in P_{n-83} in P_{n-84} in P_{n-85} in P_{n-86} in P_{n-87} in P_{n-88} in P_{n-89} in P_{n-90} in P_{n-91} in P_{n-92} in P_{n-93} in P_{n-94} in P_{n-95} in P_{n-96} in P_{n-97} in P_{n-98} in P_{n-99} in P_{n-100} in S whose corresponding structures verify the chain w_{n-1} includes w_{n-2} includes w_{n-3} includes w_{n-4} includes w_{n-5} includes w_{n-6} includes w_{n-7} includes w_{n-8} includes w_{n-9} includes w_{n-10} includes w_{n-11} includes w_{n-12} includes w_{n-13} includes w_{n-14} includes w_{n-15} includes w_{n-16} includes w_{n-17} includes w_{n-18} includes w_{n-19} includes w_{n-20} includes w_{n-21} includes w_{n-22} includes w_{n-23} includes w_{n-24} includes w_{n-25} includes w_{n-26} includes w_{n-27} includes w_{n-28} includes w_{n-29} includes w_{n-30} includes w_{n-31} includes w_{n-32} includes w_{n-33} includes w_{n-34} includes w_{n-35} includes w_{n-36} includes w_{n-37} includes w_{n-38} includes w_{n-39} includes w_{n-40} includes w_{n-41} includes w_{n-42} includes w_{n-43} includes w_{n-44} includes w_{n-45} includes w_{n-46} includes w_{n-47} includes w_{n-48} includes w_{n-49} includes w_{n-50} includes w_{n-51} includes w_{n-52} includes w_{n-53} includes w_{n-54} includes w_{n-55} includes w_{n-56} includes w_{n-57} includes w_{n-58} includes w_{n-59} includes w_{n-60} includes w_{n-61} includes w_{n-62} includes w_{n-63} includes w_{n-64} includes w_{n-65} includes w_{n-66} includes w_{n-67} includes w_{n-68} includes w_{n-69} includes w_{n-70} includes w_{n-71} includes w_{n-72} includes w_{n-73} includes w_{n-74} includes w_{n-75} includes w_{n-76} includes w_{n-77} includes w_{n-78} includes w_{n-79} includes w_{n-80} includes w_{n-81} includes w_{n-82} includes w_{n-83} includes w_{n-84} includes w_{n-85} includes w_{n-86} includes w_{n-87} includes w_{n-88} includes w_{n-89} includes w_{n-90} includes w_{n-91} includes w_{n-92} includes w_{n-93} includes w_{n-94} includes w_{n-95} includes w_{n-96} includes w_{n-97} includes w_{n-98} includes w_{n-99} includes w_{n-100} where includes 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 definitivative 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 The Journal of Fuzzy Mathematics ,2004 **Collected Papers, Volume XV** Florentin Smarandache

,2025-12-01 This fifteenth volume of Collected Papers is an extensive work comprising 77 articles that span almost 1000 pages The papers originally published in various scientific journals cover the broad and interdisciplinary fields of neutrosophics and other areas of study including mathematics fuzzy sets intuitionistic fuzzy sets picture fuzzy sets

information fusion robotics statistics and extenics The volume features articles authored by Florentin Smarandache either alone or in collaboration with 123 co authors A complete list of these co authors is provided below arranged alphabetically

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Boletim da Sociedade Paranaense de Matemática ,2000 **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 *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

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Analele științifice ale Universității "Al. I. Cuza" din Iași Universitatea "Al. I. Cuza" din Iași,1995 *Handbook of Rough Set Extensions and Uncertainty Models* Takaaki Fujita,Florentin Smarandache,2026-01-01 Handbook of Rough Set Extensions and Uncertainty Models provides a systematic and structured survey of rough set theory and its major extensions developed to model uncertainty vagueness granularity and indiscernibility in data driven systems Rooted in Pawlak s original approximation framework rough set theory distinguishes between what can be determined with certainty and what remains only possible under limited information Over time numerous generalizations have emerged to address increasingly complex forms of uncertainty This handbook serves as a comprehensive model map of the rough set landscape It organizes and analyzes a wide spectrum of variants including equivalence based tolerance based covering based neighborhood based probabilistic weighted multi granulation hierarchical and sequential rough sets In addition hybrid uncertainty models such as fuzzy rough sets intuitionistic fuzzy rough sets neutrosophic rough sets plithogenic rough sets and other generalized formulations are presented within a unified conceptual taxonomy Rather than focusing on a single algorithmic pipeline the book emphasizes structural foundations approximation mechanisms value semantics and interpretative differences among models Each framework is introduced with precise definitions theoretical clarification and illustrative examples that highlight its modeling intent and practical relevance in areas such as classification decision support feature selection ranking streaming data analysis and explainable artificial intelligence By aligning granulation mechanisms with uncertainty semantics this volume enables researchers and advanced practitioners to navigate the expanding rough set ecosystem and select appropriate models for theoretical investigation or real world applications It functions both as a reference work and as a conceptual guide for future developments in uncertainty modeling and data driven reasoning

Mathematical Reviews ,2005 **Indian Science Abstracts** ,2005-09 **The Mathematics Student** ,1991 **Реферативный журнал** ,1994

Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004 Applied Fuzzy Mathematics Manoranjan Kumar Singh, 2024-12-31 This comprehensive introductory textbook is designed for undergraduate mathematics students who are interested in gaining an in depth understanding of fuzzy mathematics and its applications The book covers a wide range of topics including fuzzy linear equations fuzzy graphs fuzzy measures fuzzy logic fuzzy topological spaces fuzzy subgroups as well as applications of fuzzy mathematics in various other fields While readers are assumed to be familiar with the concept of fuzzy sets the book maintains a clear and straightforward approach that makes it easy to follow for students at any level of proficiency The advanced content is presented in an insightful and accessible manner empowering students to apply the concepts they learn to real world problems and applications Enriched with over 105 solved examples 133 challenging problems 185 multiple choice questions and 150 true false statements this book is an ideal tool for beginners seeking to gain a solid foundation in fuzzy mathematics and its applications Whether you are studying independently or as part of a classroom setting this book provides a valuable resource that will help you achieve your goals **Forthcoming Books** Rose Arny, 1995 **Concepts of Fuzzy Mathematics** Manoranjan Kumar Singh, 2024-08-10 This comprehensive introductory textbook is designed for undergraduate mathematics students seeking to gain a strong understanding of fuzzy sets and relations Covering all major topics in the field this course provides a solid foundation in fuzzy mathematics similar to a pre calculus course covering algebra functions and trigonometry The book is enriched with more than 225 solved examples 194 challenging problems 276 multiple choice questions and 240 true false statements making it an ideal companion for students looking to master the basics of fuzzy mathematics Whether readers are studying on their own or as part of a classroom setting this book provides a unified and comprehensive treatment of the subject ensuring that readers have the knowledge and skills they need to succeed

Adopting the Tune of Term: An Emotional Symphony within **Fuzzy Algebra By Rajesh Kumar**

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