Florentin Smarandache (editor and founder)
The Encyclopedia of Neutrosophic Researchers
2nd Volume
This is the second volume of the *Encyclopedia of Neutrosophic Researchers*, edited from materials offered by the authors who responded to my invitation. The introduction contains a *short history of neutrosophics*, together with links to the main papers and books.

The authors who have published neutrosophic papers, books, or defended neutrosophic master theses or PhD dissertations and are not included in the two ENR volumes, are kindly invited to send their self-presentations or their CVs, a photo, and a list of neutrosophic publications to smarand@unm.edu and neutrosophy@laposte.net to be part of a third volume.

Florentin Smarandache

http://fs.unm.edu/neutrosophy.htm

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Editor: Georgiana Antonescu
President of Pons asbl
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History of Neutrosophic Theory and its Applications (updated)

Zadeh introduced the degree of membership/truth (T) in 1965 and defined the fuzzy set.
Atanassov introduced the degree of nonmembership/falsehood (F) in 1986 and defined the intuitionistic fuzzy set.

Smarandache introduced the degree of indeterminacy/neutrality (I) as independent component in 1995 (published in 1998) and he defined the neutrosophic set on three components:

\[(T, I, F) = (\text{Truth, Indeterminacy, Falsehood}),\] where in general T, I, F are subsets of the interval \([0, 1]\); in particular T, I, F may be intervals, hesitant sets, or single-values; see

F. Smarandache, *Neutrosophy / Neutrosophic probability, set, and logic", Proquest, Michigan, USA, 1998,*

http://fs.unm.edu/eBook-Neutrosophics6.pdf; reviewed in Zentralblatt fuer Mathematik (Berlin, Germany):

https://zbmath.org/?q=an:01273000


Neutrosophic Set and Logic are generalizations of classical, fuzzy, and intuitionistic fuzzy set and logic.

While Neutrosophic Probability and Statistics are generalizations of classical and imprecise probability and statistics.

**Etymology.**
The words “neutrosophy” and “neutrosophic” were coined/invented by F. Smarandache in his 1998 book.

**Neutrosophy:** A branch of philosophy, introduced by F. Smarandache in 1980, which studies the origin, nature, and scope of neutralities, as well as their interactions with different ideational spectra. Neutrosophy
Neutrosophy (as dynamic of opposites and their neutrals) is an extension of the Dialectics (which is the dynamic of opposites only).

Neutrosophy is the basis of neutrosophic logic, neutrosophic probability, neutrosophic set, and neutrosophic statistics.

Neutrosophic Logic is a general framework for unification of many existing logics, such as fuzzy logic (especially intuitionistic fuzzy logic), paraconsistent logic, intuitionistic logic, etc. The main idea of NL is to characterize each logical statement in a 3D-Neutrosophic Space, where each dimension of the space represents respectively the truth (T), the falsehood (F), and the indeterminacy (I) of the statement under consideration, where T, I, F are standard or non-standard real subsets of $]0, 1[$ with not necessarily any connection between them.

For software engineering proposals the classical unit interval $[0, 1]$ may be used.

Degrees of Dependence and Independence between Neutrosophic Components

T, I, F are independent components, leaving room for incomplete information (when their superior sum $< 1$), paraconsistent and contradictory information (when the superior sum $> 1$), or complete information (sum of components $= 1$).

For software engineering proposals the classical unit interval $[0, 1]$ is used.

For single valued neutrosophic logic, the sum of the components is:

$0 \leq t+i+f \leq 3$ when all three components are independent;

$0 \leq t+i+f \leq 2$ when two components are dependent, while the third one is independent from them;

$0 \leq t+i+f \leq 1$ when all three components are dependent.

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When three or two of the components T, I, F are independent, one leaves room for incomplete information (sum < 1), paraconsistent and contradictory information (sum > 1), or complete information (sum = 1).

If all three components T, I, F are dependent, then similarly one leaves room for incomplete information (sum < 1), or complete information (sum = 1).

In general, the sum of two components x and y that vary in the unitary interval [0, 1] is:

\[ 0 \leq x + y \leq 2 - d^\circ(x, y), \]
where \( d^\circ(x, y) \) is the degree of dependence between x and y, while

\( d^\circ(x, y) \) is the degree of independence between x and y.

In 2013 Smarandache refined the neutrosophic set to n components:
\[ (T_1, T_2, \ldots; I_1, I_2, \ldots; F_1, F_2, \ldots); \]

The Most Important Books and Papers in the Advancement of Neutrosophics

1995-1998 – Smarandache generalizes the dialectics to neutrosophy; introduces the neutrosophic set/ logic/ probability/;
introduces the single-valued neutrosophic set (pp. 7-8);

2002 – Introduction of special types of sets / probabilities / statistics / logics, such as:
- intuitionistic set, paraconsistent set, faillibilist set, paradoxist set, pseudo-paradoxist set, tautological set, nihilist set, dialetheist set, trivialist set;
- intuitionistic probability and statistics, paraconsistent probability and statistics, faillibilist probability and statistics, paradoxist probability and statistics, pseudo-paradoxist probability and statistics, tautological probability and statistics, nihilist probability and statistics, dialetheist probability and statistics, trivialist probability and statistics;
- paradoxist logic (or paradoxism), pseudo-paradoxist logic (or pseudo-paradoxism), tautological logic (or tautologism); http://fs.unm.edu/DefinitionsDerivedFromNeutrosophics.pdf

2003 – Introduction of Neutrosophic Numbers \((a+bl, \text{ where } I = \text{ indeterminacy, } I^2 = I)\)

2003 – Introduction of I-Neutrosophic Algebraic Structures

2003 – Introduction to Neutrosophic Cognitive Maps
http://fs.unm.edu/NCMs.pdf

2005 - Introduction of Interval Neutrosophic Set/Logic
http://fs.unm.edu/INSL.pdf

2006 – Introduction of Degree of Dependence and Degree of Independence between the Neutrosophic Components \(T, I, F\)

http://fs.unm.edu/ebook-neutrosophics6.pdf (p. 92)

http://fs.unm.edu/NSS/DegreeOfDependenceAndIndependence.pdf

2007 – The Neutrosophic Set was extended [Smarandache, 2007] to Neutrosophic Overset (when some neutrosophic component is \(> 1\)), since he observed that, for example, an employee working overtime deserves a degree of membership \(> 1\), with respect to an employee that only works regular full-time and whose degree of membership = 1;

and to Neutrosophic Underset (when some neutrosophic component is \(< 0\)), since, for example, an employee making more damage than benefit to his company deserves a degree of membership \(< 0\), with respect to an employee that produces benefit to the company and has the degree of membership \(> 0\);

and to and to Neutrosophic Offset (when some neutrosophic components are off the interval \([0, 1]\), i.e. some neutrosophic component \(> 1\) and some neutrosophic component \(< 0\)).

Then, similarly, the Neutrosophic Logic/ Measure/ Probability/ Statistics etc. were extended to respectively Neutrosophic Over-/Under-/Off- Logic, Measure, Probability, Statistics etc.

http://fs.unm.edu/SVNeutrosophicOverset-JMI.pdf


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Encyclopedia of Neutrosophic Researchers, 2nd Volume
2007 – Smarandache introduced the Neutrosophic Tripolar Set and Neutrosophic Multipolar Set and consequently
- the Neutrosophic Tripolar Graph and Neutrosophic Multipolar Graph

http://fs.unm.edu/eBook-Neutrosophics6.pdf (p. 93)

2009 – Introduction of N-norm and N-conorm
http://fs.unm.edu/N-normN-conorm.pdf

2013 - Development of Neutrosophic Probability (chance that an event occurs, indeterminate chance of occurrence, chance that the event does not occur)
http://fs.unm.edu/NeutrosophicMeasureIntegralProbability.pdf

2013 - Refinement of Neutrosophic Components (T_1, T_2, ...; I_1, I_2, ...; F_1, F_2, ...)
http://fs.unm.edu/n-ValuedNeutrosophicLogic-PiP.pdf

2014 – Introduction of the Law of Included Multiple Middle
(<A>; <neut1A>, <neut2A>, ...; <antiA>)
http://fs.unm.edu/LawIncludedMultiple-Middle.pdf

2014 - Development of Neutrosophic Statistics (indeterminacy is introduced into classical statistics with respect to the sample/population, or with respect to the individuals that only partially belong to a sample/population)
http://fs.unm.edu/NeutrosophicStatistics.pdf

2015 - Introduction of Neutrosophic Precalculus and Neutrosophic Calculus
http://fs.unm.edu/NeutrosophicPrecalculusCalculus.pdf

2015 – Refined Neutrosophic Numbers (a + b_1I_1 + b_2I_2 + ... + b_nI_n), where I_1, I_2, ..., I_n are subindeterminacies of indeterminacy I;
2015 – (t,i,f)-neutrosophic graphs;


2015 – Introduction of the subindeterminacies of the form \((I_0)^n = k/0\), for \(k \in \{0, 1, 2, ..., n-1\}\), into the ring of modulo integers \(Z_n\) - called natural neutrosophic indeterminacies (Vasantha-Smarandache)

http://fs.unm.edu/MODNeutrosophicNumbers.pdf

2015 – Introduction of Neutrosophic Crisp Set and Topology (Salama & Smarandache)

http://fs.unm.edu/NeutrosophicCrispSetTheory.pdf

2016 – Introduction of Neutrosophic Multisets (as generalization of classical multisets)

http://fs.unm.edu/NeutrosophicMultisets.htm

2016 – Introduction of Neutrosophic Triplet Structures and m-valued refined neutrosophic triplet structures [Smarandache - Ali]

http://fs.unm.edu/NeutrosophicTriplets.htm

2016 – Introduction of Neutrosophic Duplet Structures

http://fs.unm.edu/NeutrosophicDuplets.htm

2017 - In biology Smarandache introduced the Theory of Neutrosophic Evolution: Degrees of Evolution, Indeterminacy or Neutrality, and Involucion


2017 - Introduction by F. Smarandache of Plithogeny (as generalization of Dialectics and Neutrosophy), and Plithogenic Set/Logic/Probability/Statistics (as generalization of fuzzy, intuitionistic fuzzy, neutrosophic set/logic/probability/statistics)

2018 - **Neutrosophic Psychology** (Neutropsyche, Refined Neutrosophic Memory: conscious, aconscious, unconscious, Neutropsychic Personality, Eros / Aoristos / Thanatos, Neutropsychic Crisp Personality)

http://fs.unm.edu/NeutropsychicPersonality-ed2.pdf

**Neutrosophic Applications** in:


**Neutrosophic Sets and Systems (NSS)** international journal started in 2013 and it is indexed by Scopus, Index Copernicus etc. ( http://fs.unm.edu/NSS/).

Submit papers on neutrosophic set/logic/probability/statistics and their applications to the editor-in-chief: smarand@.edu.

**Encyclopedia of Neutrosophic Researchers**

The authors who have published or presented papers on neutrosophics and are not included in the *Encyclopedia of Neutrosophic Researchers* (ENR), vols. 1 and 2,

http://fs.unm.edu/EncyclopediaNeutrosophicResearchers.pdf
http://fs.unm.edu/EncyclopediaNeutrosophicResearchers2.pdf

are pleased to send their CV, photo, and List of Neutrosophic Publications to smarand@.edu in order to be included into the third volume of ENR.
Neutrosophic Researchers
Dr. Muhammad Akram

Professor of Mathematics

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Department of Mathematics
University of the Punjab
New Campus
54590 - Lahore / PAKISTAN

Profile

MSc degree in Mathematics and Computer Science, MPhil in (Computational) Mathematics, and PhD in Mathematics. Currently, Professor in the Department of Mathematics at the University of the Punjab, Lahore. Also served the Punjab University College of Information Technology as Assistant Professor and Associate Professor. Published 3 monographs and cca. 250 research articles in international peer-reviewed journals, including 160 ISI Indexed / IF Journal publications. Some papers have been published in high impact journals including Knowledge-Based Systems, Information Sciences, Applied Soft Computing, Computers & Mathematics with Applications, Journal of Intelligent and Fuzzy Systems, International Journal of Fuzzy Systems, Discrete Dynamics in Nature and Society, Soft Computing and Neural Computing and Applications. His current H-index on Google scholar is 20 and i10-index is 70. Editorial Member of 10 international academic journals. Reviewer/Referee for 105 International Journals, including Mathematical Reviews (USA) and Zentralblatt MATH (Germany).

Research Interests

Numerical algorithms for parabolic PDEs; Applications of fuzzy systems and related topics in graphs, hypergraphs, semirings, nearrings; Lie algebras, logical algebras; Fuzzy decision support / decision-making systems.
Neutrosophic Research

Neutrosophic Graphs; Neutrosophic Soft Graphs; Bipolar Neutrosophic Graphs; Bipolar Neutrosophic Hypergraphs; Neutrosophic Soft Hypergraphs; Interval-Valued Neutrosophic Graphs.

List of Publications in Neutrosophics


Muhammad Akram and Saba Siddique, Neutrosophic competition graphs with applications. *Journal of intelligent and fuzzy systems*, 33(2)(2017), 921-935.

Muhammad Akram and Anam Luqman, Intuitionistic single-valued neutrosophic hypergraphs. OPSEARCH, DOI: 10.1007/s12597-017-0306-9, 2017.


PhD Candidate

Rafif Alhabib
Lecturer Assistant

Affiliation
Department of Statistics
Faculty of Science
Aleppo University
Hims / SYRIA

Profile
BSc in Statistics from the Faculty of Science, ALbaath University, in 2007. Master degree in Statistics from Aleppo University, with the thesis “A Study related to Marginal Distributions of Wiener Process Intersections Number for a Known Level”, in 2013. Currently, PhD Student under the supervision of Dr. Mustafa Mazhar Rnna (Aleppo University, Faculty of Science, Statistics Department), and Prof. Dr. Haitham Farah (ALbaath University, Faculty of Science, Statistics Department), in collaboration with Prof. A. A. Salama (Egypt, Port Said University, Faculty of Science, Mathematics Department).

Research Interests
Neutrosophic Set; Neutrosophic Crisp Set; Neutrosophic Probability; Intuitionistic Neutrosophic Set.

List of Publications in Neutrosophics


Edited by Florentin Smarandache, Mohamed Abdel-Basset and Dr. Victor Chang (Editors), pp. 50-62, 2018.

Rafif Alhabib, Moustafa Mzher Ranna, Haitham Farah, A.A. Salama. Studying the hypergeometric probability distribution according to neutrosophic logic (Under publication).


Rafif Alhabib, Moustafa Mzher Ranna, Haitham Farah, A.A. Salama. Neutrosophic Uniform Continuous Distribution (Under publication).
Riad Khider Al-Hamido

PhD researcher

Affiliation
College of Science
Department of Mathematics
Al Furat University
Homs / SYRIA

Profile

BSc in Algebra, Mathematics Department, Faculty of Science, University of Aleppo, 2005. High Diploma in Algebra, Mathematics Department, Faculty of Science, University of Aleppo, 2006. MSc in Algebra, Mathematics Department, Faculty of Science, University of Aleppo 2010. PhD Student in Topology, Mathematics Department, Faculty of Science, University of Al-Baath, since 2016. Full time Lecturer at College of Science, Department of Mathematics, Al Furat University, Daer Al-Zaour, Syria, since 2013.

Research Interest

Neutrosophic Topology.

List of Publications in Neutrosophics


Dr.

Wadei Fares Al-Omeri
Assistant Professor

Affiliation
Mathematics Department
Faculty of Science
Al-Balqa Applied University
Salt 19117 / JORDAN

Profile


Research Interest

Fuzzy Parameterize Soft Multiset; Ideal Topological Group.

Neutrosophic Research

Head of NSIA branch of Jordan. Member of the editorial board of Neutrosophic Sets and Systems international journal & book series. Reviewed neutrosophic papers in different journals (Scopus and others).

List of Publications in Neutrosophics


PhD Candidate

K. Anitha
Assistant Professor

Profile

BA from Madurai Kamaraj University (Madurai, Tamilnadu, India, 1990).

Research Interests

Soft Sets; Neutrosophic Sets; Single Valued Neutrosophic Sets.

Neutrosophic Research

Apply the theory of Single Valued Neutrosophic Soft Sets in real life decision-making problems.

List of Publications in Neutrosophics


PhD Candidate

Sunita Bansal

Associate Professor

Affiliation
Manav Rachna International University
Sector-43, Aravali Hills
Delhi Surajkund Road, Faridabad
Haryana, 121001 / INDIA

Profile
BE (Civil Eng.) and ME (Structural Eng.) from PEC University, Chandigarh, in 1994, and M Tech (Information Technology) from Tezpur University, Assam, in 2003. Currently pursuing PhD from Uttarakhand Technical University, Dehradun. Working as an Associate Professor in Manav Rachna International University, Faridabad, India. 17 years of academic and industrial experience.

Research Interests
Material Modeling; Green Buildings; Neural Networks; Fuzzy Logic.

List of Publications in Neutrosophics


PhD Candidate

Tuhin Bera
Assistant Teacher of Mathematics

Affiliation
Department of Mathematics
Panskura Banamali College
Panskura RS, Midnapore (East)
West Bengal – 721152 / INDIA

Profile

Bachelor of Science in Mathematics and Master of Science in Mathematics, both from the University of Kalyani, West Bengal, India. Pursuing Doctoral degree from the Department of Mathematics, Panskura Banamali College, India, under the supervision of Dr. Nirmal Kumar Mahapatra, in Neutrosophic Environment.

Research Interests

Algebraic Structures over Soft Set; Fuzzy Set; Intuitionistic Fuzzy Set
Neutrosophic Set.

Neutrosophic Research

Neutrosophic numbers and its application in optimization.

List of Publications in Neutrosophics


Msc.

Ameirys Betancourt Vázquez
Professor of Computer Engineering

Affiliation
Polytechnic Institute of Technology and Science
Luanda / ANGOLA

Profile

Master of Science (in Project Management) and Informatics Engineer. Currently professor at the Polytechnic Institute of Technology and Science of Luanda, Angola.

Research Interests

Neutrosophic Cognitive Maps; Multicriteria Decision Support.

Neutrosophic Research

Neutrosofic Cognitive Maps; Requirement Engineering.

List of Publications in Neutrosophics


Dr.

**Mangal G. Bhatt**

*Principal*

**Affiliation**
Shantilal Shah Engineering College  
(State Government Institute)  
New Sidsar Campus  
Post Vartej, Bhavnagar, Gujarat  
364060 / INDIA

**Profile**

Working as Principal at Shantilal Shah Engineering College, Bhavnagar, 29 years of work experience, of which 6 years in Industries and 23 years of teaching at UG and PG classes of engineering and management. Graduated in Mechanical Engineering from Bhavnagar University, MA in Industrial Engineering & Operations Research from IIT, Bombay, PhD in Mechanical Engineering from Bhavnagar University. MA in Business Administration from Indira Gandhi National Open University, New Delhi, with specialization in Operations Management. Published more than 40 articles. PhD supervisor for the Faculty of Engineering at Gujarat Technological University, Ahmedabad.

**Research Interests**

Optimization Techniques for Manufacturing Engineering; Industrial Engineering; Operations Management; Lean Manufacturing; Supply Chain Management; Quality Engineering.

**Neutrosophic Research**

Implemented Entropy Weight based multi-attribute decision-making (MADM) with Fuzzy Single Valued Neutrosophic Set (F-SVNS) with technique carried out with conversion rule of crisp or fuzzy number into single valued neutrosophic set.
List of Publications in Neutrosophics


Sonal Bhugra

Assistant Professor

Affiliation
Manav Rachna International University
Sector-43, Aravali Hills
Delhi Surajkund Road, Faridabad
Haryana, 121001 / INDIA

Profile

M.Tech in Transportation Engineering from Maharishi Dayanand University and AMIE (Civil) from Institute of Engineers (India). Currently working as Assistant Professor, Department of Civil Engineering, Manav Rachna International University, Faridabad. 8 years teaching experience. Published 7 research papers.

Research Interests

Fuzzy Logic; Fuzzy Set Theory; Neutrosophic Fuzzy Logic; Fuzzy-EIA Modeling; Integrated Transportation Engineering System.

List of Publications in Neutrosophics

Dr. 
**Srijit Biswas**  
*Professor*

**Affiliation**  
Manav Rachna International University  
Sector-43, Aravali Hills  
Delhi Surajkund Road, Faridabad  
Haryana, 121001 / INDIA

**Profile**

PhD from Jadavpur University and BE & ME from Calcutta University, India. Fellowship from Institute of Engineers (India). Working as Professor, Department of Civil Engineering, Manav Rachna International University, Faridabad. More than 29 years experience. Published 45 research papers. Member of editorial boards of many reputed international journals, and authored a book on the area of ‘Fuzzy EIA’ for application in civil engineering field, published from Germany.

**List of Publications in Neutrosophics**


Hashem Bordbar

Profile


Research Interests

Commutative Algebra; Closure Operations; Hyperstructure Algebra; Ordered Algebra; Coding Theory; Cryptography.

Neutrosophic Research

Collaboration with Rajab Ali Borzooei, Florentin Smarandache and Young Bae Jun to develop a general model of neutrosophic ideals in BCK/BCI-algebras based on neutrosophic points.

List of Publications in Neutrosophics

Dr.

**Naim Çağman**

*Professor*

**Affiliation**
University of Gaziosmanpasa
Tokat / TURKEY

**Profile**

BSc from Mathematics Department, Istanbul University, Istanbul, Turkey, in 1991. MSc degree from the Wales Swansea University, in 1996. Earned PhD in 2000 from the University of Leeds. Since 2000, he has been working on the fuzzy sets, rough sets, soft sets, Neutrosophic sets and their applications at the University of Gaziosmanpasa in Tokat, Turkey.

**Research Interests**

Fuzzy Sets; Rough Sets; Soft Sets; Neutrosophic Sets.

**List of Publications in Neutrosophics**


Dr. Vildan Çetkin
Assistant Professor

Affiliation
Department of Mathematics
Kocaeli University
Umuttepe Campus
41380 Kocaeli / TURKEY

Profile
Born in 1984, in Turkey. Graduated from the University of Kocaeli with BSc, MSc and PhD degrees in Mathematics. Erasmus Exchange Student at the University of Latvia (2011-2012). Assistant Professor in the Topology Division of Mathematics Department from 2014 to 2018, and Associate Professor in the same department since 2018. Erasmus Coordinator of the Mathematics Department of Kocaeli University. Referee for some respectful journals. Published more than 30 research papers in high quality journals. Editorial board member of the International Journal of Pure Mathematical Sciences.

Research Interests
Single Valued Neutrosophic Sets; Algebra on Neutrosophic Sets; Fuzzy Sets; Fuzzy Topological Structures; Soft Sets and Soft Topological Structures; Fuzzy Metric.

Neutrosophic Research
Investigated algebraic structures such as group, ring, module, field and etc. by using single-valued neutrosophic sets as the extension of the works on fuzzy and intuitionistic fuzzy cases.

Florentin Smarandache (founder and editor)
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List of Publications in Neutrosophics


Chang Xing Fan

Lecturer

Affiliation
Department of Computer Science
Shaoxing University
508 Huancheng West Road,
Shaoxing, Zhejiang 312000 / P.R. CHINA

Profile

Born in November 1977. Graduated from the Department of Automation of Jiangxi Technology University, Bachelor of Engineering, July 2000. Graduated from the Department of Software of Tongji University, Master's Degree in Computer Science and Application, July 2009. Working in the Department of Computer Science and Engineering of Shaoxing University since July 2000. Presided three municipal projects. Participated in a national project of natural science. Published more than twenty papers in domestic and foreign journals, and one textbook.

Research Interests

Neutrosophic Set; Fuzzy Decision Making; Algorithm Optimization.

List of Publications in Neutrosophics


Chang Xing Fan et al.: Heronian Mean Operator of Linguistic Neutrosophic Cubic Numbers and Their Multiple Attribute Decision Making Methods, Mathematical Problems in Engineering. Accepted.
Chen Jiqian
Postgraduate Student

Affiliation
Department of Civil Engineering
Shaoxing University
508 Huancheng West Road
Shaoxing, Zhejiang Province / P.R. CHINA

Profile
Civil engineering at Zhejiang Ocean University (2011-2015). Studying for a master’s degree at Shaoxing University, beginning to do research about neutrosophic applications in civil engineering.

Neutrosophic Research
The application of neutrosophic topics to the expression of joint roughness coefficient and the analysis of its characteristics.

Research Interests
Neutrosophic Numbers; Neutrosophic Interval Statistical Numbers; Neutrosophic Statistics.

List of Publications in Neutrosophics


Bui Cong Cuong

Affiliation
Vietnam Academy of Science and Technology
Hanoi / VIETNAM

Profile

Research Interests
Optimization and Systems; Databases; Artificial Neural Network; Artificial Intelligence.

List of Publications in Neutrosophics

Bui Cong Cuong, Pham Hong Phong, Florentin Smarandache,
Neutrosophic Sets and Systems, vol. 12, 2016, ISSN 2331-6055,
pp. 80-91.
Dr.

C. Antony Crispin Sweety

Assistant Professor

Affiliation
Department of Mathematics
Nirmala College for Women
Coimbatore, Tamilnadu / INDIA

Profile
Ph. in Mathematics from Bharathiar University. Currently working as an Assistant Professor at Nirmala College for Women, Coimbatore, in Tamilnadu, India.

Research Interests
Fuzzy Sets; Neutrosophic Sets; Rough Sets; Soft Sets; Topology; Neutrosophic Transportation Problem.

Neutrosophic Research
A Study on Neutrosophic Rough Sets and its Applications. Robust Ranking Technique for solving Transportation Problem in Neutrosophic environment.

List of Publications in Neutrosophics


**Papers Submitted**

C. Antony Crispin Sweety and N. Aswitha. A New Method of Solving Neutrosophic Transportation Problem via Robust Ranking Technique and Allocation Table Method, *Neutrosophic Sets and System*.

**Conferences**


Jingguo Dai

Teacher

Affiliation
School of Information Science and Engineering
Shaoguan University
No 288, Daxue Road, Shaoguan
Guangdong Province 512005 / P. R. CHINA

Profile

Teacher in the School of Information Science and Engineering, Shaoguan University. Published more than five SCI-indexed papers.

Research Interests

Neutrosophic set; soft computing; multi-criteria decision making; pattern recognitions.

List of Publications in Neutrosophics


Dr. 

Sujit Das  
Assistant Professor

Affiliation  
Dept. of Computer Science and Engineering  
Dr. B. C. Roy Engineering College, Durgapur  
713206 - West Bengal / INDIA

Profile

PhD in Computer Science and Engineering from National Institute of Technology Durgapur, with 14 years teaching experience and 6 years of research experience. Published (or contributed to) many quality papers in referred journals and presented in various international conferences. Reviewer for various international journals and conferences. Awarded best conference papers awards in CSO 2014, Beijing and FICTA 2015, Durgapur.

Research Interests

Fuzzy Sets; Soft Sets; Evolutionary Algorithms; MCDM Techniques; Artificial Intelligence; Neural Network; Soft Computing Based Techniques; Machine Learning; Neutrosophic Logic.

List of Publications in Neutrosophics

Dr.

R. Dhavaseelan

Assistant Professor

Affiliation
Department of Mathematics
Sona College of Technology
Salem 636005
Tamil Nadu / INDIA

Profile

PhD from Periyar University, India. More than 8 years of teaching experience and 7 years of research experience. Currently working as Assistant Professor at Sona College of Technology, Salem, India.

Research Interests

Topology; Discrete Mathematics; Graph Theory; Pure Mathematics; Fuzzy Topology; General Topology; Graceful Labelling; Fuzzy Mathematics; Graphs; Intuitionistic Fuzzy Topology; Combinatorics; Lattice Theory; Set Theory; Neutrosophic Sets; Neutrosophic Graphs; Single Valued Neutrosophic Graphs; Neutrosophic Topology.

List of Publications in Neutrosophics


Dr.
En Fan
Lecturer

Affiliation
Department of Computer Science and Engineering
Shaoxing University
Huancheng West Road 508, Yuecheng District
Shaoxing 312000 / P.R. CHINA

Profile

BSc degree in Electronic Information Science and Technology from Hubei Engineering University in 2002. MSc in Signal and Information Processing from Nanchang Hangkong University in 2006. PhD in Signal and Information Processing from Xidian University in 2015. In 2016, worked as a postdoctoral researcher with College of Information Engineering at Shenzhen University, China. Currently, affiliated with Department of Computer Science and Engineering at Shaoxing University. Member of Information Fusion section in Chinese Society of Aeronautics and Astronautics (CSAA). Worked as reviewers for several SCI journals and conferences, published more than 20 journal papers, and presided 4 grant funded projects by 2017.

Research Interests

Intelligent Information Processing; Multiple Sensor Data Fusion; Multiple Target Tracking.

Neutrosophic Research

Firstly applied neutrosophic set into multiple target tracking research area in 2015. Published several research works based on neutrosophic set, such as track initiation, track association and track fusion. Presided Youth Fund of National Natural Science Fund 1 item, “Neutrosophic set-based multisensory anti-bias track association and track fusion on aerial targets” (No. 61703280) in 2017.

Florentin Smarandache (founder and editor)
Encyclopedia of Neutrosophic Researchers, 2nd Volume
List of Publications in Neutrosophics


Dr.

Harish Garg

Assistant Professor

Affiliation
School of Mathematics
Thapar University Patiala – 147004
Punjab / INDIA

Profile

Research Interests

Multi Criteria Decision-Making; Aggregation Operator; Intuitionistic Fuzzy Set; Reliability Theory using Evolutionary Algorithms; Soft Computing Techniques; Neutrosophic Logic; Neutrosophic Numbers; Neutrosophic Cubic Set; Neutrosophic Decision Making; Aggregation Operators; Neutrosophic Optimization; Single Valued Neutrosophic Set; Interval Neutrosophic Set.

Neutrosophic Research

The focus in the neutrosophic domain is to present some more information measures, as well as the aggregation operators under the single valued, interval-valued, hesitant and linguistic neutrosophic information.

List of Publications in Neutrosophics


Dr.  
P. Geetha  
Assistant Professor  

Affiliation  
V.V.Vanniaperumal College for Women  
Virudhunagar, Tamilnadu / INDIA  

Profile  

Research Interests  
Lattice Theory; Soft Sets; Rough Sets; Neutrosophic Sets; Single Valued Neutrosophic Sets.  

Neutrosophic Research  
Applying the theory of Single Valued Neutrosophic Soft Sets in real life decision making problems.  

List of Publications in Neutrosophics  


PhD Candidate

Anjali Gupta

Assistant Professor

Profile

MTech from NIT, Kurukshetra. BTech from GZSCET, Bathinda, India. Pursuing PhD from NIT Kurukshetra. Member of Indian Geotechnical Society (India). Presently working as Assistant Professor, Department of Civil Engineering, Manav Rachna International University, Faridabad. More than 12 years experience. Published 4 research papers out of which 2 are on the area of Neutrosophic Fuzzy Logic.

List of Publications in Neutrosophics


Dr.

Keli Hu

Lecturer

Affiliation
Department of Computer Science and Engineering
Shaoxing University
Huancheng West Road 508, Yuecheng District
Shaoxing 312000 / P.R. CHINA

Profile

BSc degree in communication engineering from Hangzhou Dianzi University, China. PhD in information and communication engineering from Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences. Currently, affiliated with the Department of Computer Science and Engineering, Shaoxing University, China. Worked as reviewers for several SCI journals and conferences. Published more than 20 journal papers. Presided four grant funded projects by 2017.

Research Interests

Artificial Intelligence; Pattern Recognition; Computer Vision; Image Processing; Target Tracking.

Neutrosophic Research

Firstly applied neutrosophic set into visual object tracking research area in 2015. Published several research works based on neutrosophic set, such as feature fusion and multiple attribute group decision-making. Presided Youth Fund of National Natural Science Fund 1 item, “Research on multi-feature and multi-tracker fusion for visual object tracking using multi-attribute decision making based on neutrosophic set” (No. 61603258) in 2016.
List of Publications in Neutrosophics


Dr.

Hua Ma
Associate Professor

Affiliation
Department of Computer
Hunan Normal University
36 Yuelu Mountain Road
Changsha 410081 / P.R. CHINA

Profile

BSc in Computer Science and Technology. MSc in Computer Application Technology from Central South University, Changsha, China. PhD in Software Engineering from Central South University, Changsha, China. Currently, associate professor in the Department of Computer at Hunan Normal University, Changsha, China. Published more than 30 journal/conference papers. Completed five research projects funded by various agencies, and worked as reviewers for eight international journals/conferences or Chinese journals.

Research Interests

Service Computing; Cloud Computing; Software Engineering.

Neutrosophic Research

Applied neutrosophic set into service computing and cloud computing areas. Research based on neutrosophic set, such as trustworthiness measurement of cloud services, multi-criteria decision-making in service selection and combination optimization in service composition.

List of Publications in Neutrosophics

H. Ma and H.B. Zhu: Time-aware trustworthiness ranking prediction for cloud services using interval neutrosophic set and ELECTRE (Submitted).
Dr.

Saeid Jafari
Professor

Affiliation
College of Vestsjaelland South
DENMARK

Profile
Born in Iran (1960). Teacher and researcher in mathematics and philosophy. Master degree from Aalborg University. Major in Mathematics with subject in Symplectic Geometry and minor in philosophy from Copenhagen University in 1993. He also studied Physics at Aalborg University. Doctor rerum naturalium in Topology from Graz University of Technology in Austria, in 2004. More than 300 papers published in reputed international journals. Attending conferences and workshops around the world and working actively with different researchers, mostly from India.

Research Interest
General Topology; Fuzzy Logic and Topology; Functional Analysis; Symplectic Geometry; Strings; Gauge Theory; Quantum Gravity; Neutrosophic Logic and Topology; Theory of Multifunctions.

Neutrosophic Research
Since 2016, became acquainted with the neutrosophic theory and now, among others, working actively in this field.

List of Publications in Neutrosophics

Florentin Smarandache (founder and editor)
Encyclopedia of Neutrosophic Researchers, 2nd Volume


Dr.

Temitope Gbolahan Jaiyeola
Senior Lecturer and Researcher

Affiliation
Department of Mathematics
Faculty of Science
Obafemi Awolowo University
Ile-Ife / NIGERIA

Profile

BSc degree in Mathematical Science (with bias in Mathematics) in 2002. MSc degree in Mathematics in 2005. PhD degree in Mathematics in 2009 at the University of Agriculture, Abeokuta, Nigeria (now Federal University of Agriculture, Abeokuta, Nigeria). MSc and PhD theses were based on the notions of "Central Loops" and "Osborn Loops" in the field of Algebra known as "Theory of Quasigroups and Loops". Research in the field of "Theory of Quasigroups and Loops" for the past 15 years. Published 58 research articles in international and reputable journals. Published a research monograph titled "A Study of New Concepts in Smarandache Quasigroups and Loops" in 2009. Appointed at the Department of Mathematics, Faculty of Science, Obafemi Awolowo University (OAU), Ile-Ife, Nigeria as an Assistant Lecturer (2006), and currently a Senior Lecturer at the same university (since 2011). Supervising MSc and PhD Mathematics theses. Member of some academic and administrative committees in both the Department, Faculty and the University. Attended National and International Conferences and Schools.

Research Interests

Specialized in "Groups and their Generalization" and "Non-Associative Algebraic Systems". Particular field of expertise in the "Theory of Groupoids, Quasigroups and Loops". Also worked on "Neutrosophic Algebraic Structures" and "Non-Associative Hyper-Algebraic Structures".

Florentin Smarandache (founder and editor)
Encyclopedia of Neutrosophic Researchers, 2nd Volume
Neutrosophic Research

Applying neutrosophics to Cryptography and Coding Theory.

List of Publications in Neutrosophics


Dr. Young Bae Jun
Emeritus Professor

Affiliation
Department of Mathematics Education
Gyeongsang National University
Jinju 52828 / SOUTH KOREA

Profile
PhD from Kyung Hee University, Seoul, South Korea. Post-Doctoral Fellow at University of Alberta, Canada, 1989-1990 (Supported by Korea Science & Engineering Foundation). Worked at the Department of Mathematics Education, Gyeongsang National University (GNU) as a professor (from 1982 to 2016), and now Emeritus Professor of GNU. Published a book, “BCK-algebras”, with Professor J. Meng, and more than 730 research papers in several journals. Awards and Honors: Academic Achievement Award (7 July 2006), Busan-Gyeongnam Branch of the Korean Mathematical Society. Listed in the eighth edition of “Marquis Who’s Who in Science and Engineering”. Listed among the Highly Cited Researchers 2016 published by Thomson Reuters.

Research Interests
BCK/BCI-Algebra; Fuzzy Algebraic Structure; Soft (Rough) Algebraic Structure; Smarandache Notions in Algebraic Structures.

Neutrosophic Research
Neutrosophic Logic; Neutrosophic Cubic Set; Neutrosophic Algebraic Structures.
List of Publications in Neutrosophics


PhD Candidate

Mustapha Kachchouh

Lecturer Assistant

Affiliation
Ibn Rushd Studies Laboratory
Philosophy Department
Faculty of Arts and Human Sciences Dhar El Mahraz
Sidi Mohamed Ibn Abdallh University
Fez / MOROCCO

Profile

Bachelor of Philosophy in 2008, and Master degree in Modern Philosophy with the thesis “The physical reality in super string theory, towards a philosophical reading of scientific theory”, under the supervision of Prof. Tebesse Youssef in 2011. Since 2013, PhD Student under the supervision of Prof. Lahkim Benani, with the thesis: “Rationality and paradoxes in Contemporary Thought: towards a new Rationality based on paradoxes, neutrosophy as a model”, from Faculty of Arts and Human Sciences Dhar El Mahraz, Sidi Mohamed Ibn Abdallah University – Fez, Morocco. Teacher of philosophy in high school since 2011. Lecturer assistant in symbolic logic since February 2017 (Faculty of Arts and Human Sciences Dhar El Mahraz, Sidi Mohamed Ibn Abdallah University –Fez, Morocco).

Research Interests

History and Philosophy of Sciences (Physics and Mathematics); Epistemology; Symbolic Logic; Metaphysics; Neutrosophy; Neutrosophic Logic; Fuzzy Logic; Education.

Neutrosophic Research

Working on the development of Neutrosophy in a range of philosophical disciplines, especially in ontology and epistemology. Seeking to found a quantum ontology. Attempting to construct a new theory of knowledge from a purely neutrosophic point of view.
List of Publications in Neutrosophics

Dr.

Darjan Karabasevic
Assistant Professor

Affiliation
Faculty of Applied Management, Economics and Finance
University Business Academy in Novi Sad
Belgrade / SERBIA

Profile
Vice-Dean for Scientific Research and Assistant Professor of Management and Informatics at the Faculty of Applied Management, Economics and Finance, University Business Academy in Novi Sad. Obtained degrees at all the levels of studies (BSc appl. in Economics, BSc in Economics, Academic Specialization in the Management of Business Information Systems and PhD in Management and Business) at the Faculty of Management in Zajecar, John Naisbitt University Belgrade. Published a number of papers in prominent journals, such as Informatica, Inzinerine Ekonomika - Engineering Economics, Journal of Business Economics and Management, Transformations in Business and Economics, etc.

Research Interests
Management; Informatics; Decision-making.

List of Publications in Neutrosophics


Dr. Seema Mehra  
Assistant Professor

Affiliation
Department of Mathematics
Maharshi Dayanand University
Rohtak / INDIA

Profile
Graduated from Maharshi Dayanand University, Rohtak, with BSc, MSc and PhD in Mathematics. Assistant Professor in Department of Mathematics, Maharshi Dayanand University, Rohtak for over 10 years.

Research Interests
Analysis; Fuzzy mathematics; Graph Theory; Discrete Mathematics; Graph Labeling; Fuzzy Graphs; Neutrosophic Graphs.

List of Publications in Neutrosophics

Dr. 

M. Mullai

Assistant Professor

Affiliation
Department of Mathematics
Alagappa University
Karaikudi – 630 003
Tamil Nadu / INDIA

Profile

BSc in Mathematics, Mathematics Department, Madurai Kamaraj University of Tamil Nadu in 1998. MSc in Mathematics in 2001, MPhil in Mathematics in 2002 and PhD in Mathematics with specialization Fuzzy Algebra in 2012, Department of Mathematics in Alagappa University, Karaikudi, Tamil Nadu, India. Guest Lecturer in the Department of Mathematics in Alagappa Govt. Arts College, Karaikudi (2004-2010). Lecturer in the Department of Mathematics in Veltech Engineering College, Avadi, Chennai (2005-2006). Assistant Professor in the Department of Mathematics in St. Micheal College of Engineering and Technology, Kalayarkoil (2010-2011). Associate Professor & Head, Department of Mathematics in Sri Raaja Raajan College of Engineering and Technology, Amaravathipudur, Karaikudi (2011-2013). Since 2013, Assistant Professor in Mathematics (DDE) in Department of Mathematics, Alagappa University, Karaikudi.

Research Interests

Algebra; Fuzzy Algebra; Operations Research; Mathematical Modelling; Neutrosophic Optimization Theory and Neutrosophic Inventory Models.

List of Publications in Neutrosophics


Florentin Smarandache (founder and editor)
Encyclopedia of Neutrosophic Researchers, 2nd Volume


M. Mullai and R. Surya, Neutrosophic inventory backorder problem using triangular neutrosophic number (Communicated).

M. Mullai and R. Surya, Neutrosophic Inventory Model under immediate return for deficient Items (Communicated).
PhD Candidate
Nancy
Teaching Assistant

Affiliation
School of Mathematics,
Thapar University Patiala – 147004,
Punjab / INDIA

Profile
Bachelor of Science (Computer Science, Mathematics and Statistics) in 2012, Master in Mathematics (2012 – 2014) from Punjabi University, Patiala, India. PhD Scholar at School of Mathematics, Thapar University, Patiala, Punjab, India. Technical papers published in international journals, including Artificial Intelligence, International Journal of Uncertainty Quantification.

Research Interests
Multi Criteria Decision-Making; Intuitionistic Fuzzy Set; Neutrosophic Logic; Neutrosophic Numbers; Neutrosophic Decision Making; Aggregation Operators; Neutrosophic Optimization; Single Valued Neutrosophic Set; Interval Neutrosophic Set.

Neutrosophic Research
Aggregation operators under the single valued, interval-valued, hesitant and linguistic neutrosophic information.

List of Publications in Neutrosophics


Florentin Smarandache (founder and editor)
Encyclopedia of Neutrosophic Researchers, 2nd Volume


PhD Research Scholar

Nital P. Nirmal

Assistant Professor of Production Engineering

Affiliation
Department of Production Engineering
Shantilal Shah Engineering College
(State Government Institute)
New Sidsar Campus
Post Vartej,
Bhavnagar, Gujarat
364060 / INDIA

Profile

Bachelor Degree in Production Engineering from Bhavnagar University. Masters of Engineering in Mechanical with specialization Production Engineering from the University of Baroda, Vadodara. Pursuing Doctoral Research at Gujarat Technological University, Ahmedabad, on “Development of Multi Attribute Decision Making Technique for Improved Performance in Manufacturing and Supply Chain Function”. Assistant Professor at the Department of Production Engineering, Shantilal Shah Government Engineering College, Bhavnagar. Published/presented research papers at/in international/national conferences and journals.

Research Interests

Fuzzy Single Valued Neutrosophic Set; Multi Attribute Decision Making; Multi Criteria Decision Making; Strategic Decision; Optimization Techniques; Selection Methodology.

Neutrosophic Research

Implemented Entropy Weight based multi attribute decision-making (MADM) with Fuzzy Single Valued Neutrosophic Set (F-SVNS) with technique carried out with conversion rule of crisp or fuzzyumber into single valued neutrosophic set. Methodology implemented and validated
under the area of manufacturing and supply chain environment. The result of the study builds assurance in suitability of fuzzy single valued neutrosophic set entropy based novel multi-attribute decision-making for improved performance in manufacturing and supply chain functions.

List of Publications in Neutrosophics


**Dr. M. Parimala**  
*Assistant Professor (Level III)*

**Affiliation**  
Department of Mathematics  
Bannari Amman Institute of Technology  
Sathyamangalam – 638401  
Erode, Tamilnadu / INDIA

**Profile**

Assistant Professor (Level III) at Bannari Amman Institute of Technology, Sathyamangalam. PhD (Mathematics) in 2012 from Bharathiar University, Coimbatore, Tamilnadu, India. Published 55 research articles in international peer-reviewed journals, including 16 SCOPUS Indexed and 7 ISI Indexed /IF Journal publications. PhD supervisor for the Anna University, Chennai, India.

**Research Interests**

Nano and Intuitionistic Fuzzy Topology; Minimal Ideals; Digital Image Processing; Digital Topology.

**List of Publications in Neutrosophics**


R. Dhavaseelan, M. Ganster, S. Jafari and M. Parimala. On neutrosophic $\alpha$-supra open sets and neutrosophic $\alpha$-supra...


Dr.

Juan-juan Peng
Postdoctoral researcher and Associate Professor

Affiliation
School of Business
Central South University
932 Lushan South Road
Changsha, Hunan Province
410083 / P.R. CHINA

Profile
MSc in Computational Mathematics from Wuhan University of Technology, China, in 2007. PhD in Central South University, China in 2015. Postdoctoral researcher in Business School, Central South University. Associated professor in School of Economics and Management, Hubei University of Automotive Technology. In charge of National Natural Science Foundation of China: “The research on multi-criteria decision-making methods and their applications based on picture fuzzy sets”.

Research Interests
Multi-Criteria Decision Making; Group Decision-Making; Risk Evaluation; Tourism Recommendation.

Neutrosophic Research
Interested in the combination of neutrosophic sets and fuzzy sets.

List of Publications in Neutrosophics


Dr.

Xindong Peng

Lecturer

Affiliation
School of Information Science and Engineering
Shaoguan University
288 Daxue Road, Shaoguan
Guangdong Province 512005 / P. R. CHINA

Profile


Research Interests

Neutrosophic Set; Soft Computing; Multi-criteria Decision Making; Pattern Recognitions.

List of Publications in Neutrosophics


Florentin Smarandache (founder and editor)
Encyclopedia of Neutrosophic Researchers, 2nd Volume
Dr.

**Karina Pérez Teruel**

*Professor*

**Affiliation**
Universidad Abierta para Adultos
Santiago de los Caballeros / REPÚBLICA DOMINICANA

**Profile**
PhD in Technical Sciences (Artificial Intelligence), Master of Science (Bioinformatics) and Informatics Engineer. Currently, professor at the Universidad Abierta para Adultos.

**Research Interests**
Neutrosophic logic; Neutrosophic Cognitive Maps, Multicriteria Decision Support.

**Neutrosophic Research**
Multicriteria Decision Support using SVN numbers, Neutrosophic Cognitive Maps, Requirement Engineering.

**List of Publications in Neutrosophics**

Ameirys Betancourt-Vázquez, Karina Pérez-Teruel: Modelado y análisis las interdependencias entre requisitos no funcionales mediante mapas cognitivos neutrosóficos. *Neutrosophic Computing and Machine Learning*. 2018


Dr. Diego Lucio Rapoport
Lecturer

Affiliation
Professor of Mathematics
Department of Sciences and Technology
Universidad Nacional de Quilmes
Bernal, Buenos Aires / ARGENTINA

Profile
Patagonian polymath, born in Buenos Aires, studied in Buenos Aires, Rio and Tel Aviv (PhD thesis in mathematical physics, completed at Harvard). Professor of Mathematical Physics at the Instituto Balseiro (Bariloche), University of Buenos Aires, University of Sao Paulo and Pontifical Catholic University of Rio, Universidad Autonoma Metropolitana and Instituto Politecnico Nacional (Mexico City), University of Bio Bio (Concepcion, Chile). Lectured at the University of Tel Aviv, Technion (Haifa) and Universidade Santa Ursula (Rio). In 2010 received, together with Prof. Florentin Smarandache among others, the Telesio Galilei Academy of Sciences (UK) Gold Medal Award, at Pecs University, Hungary.

Research Interests
Unification of Science through multistate logic and its associated phenomenology.

Neutrosophic Research
Developed a supradual ontoepistemology and logophysics related to the non-orientability of the Klein Bottle with its four logical states (Inside/Inside, Inside/Outside, Outside/Inside and Outside/Outside) that is a refined Neutrosophic logic (true, false, contradiction and undecidable), and still applied it to the topology of the complex plane, non-linear
systems and chaos, non-linear thermodynamics, morphogenesis in biology and physics, phenomenology, cognition and perception, biology (development, genomics, morphomechanics, anatomy, physiology), chemistry, cybernetics, pattern recognition. This supradual logic is further related to the multistate Matrix Logic of August Stern, which has Quantum Logic, Fuzzy Logic and Boolean Logic as special cases. It serves to lift the Boolean logic expressed as the Calculus of Forms due to George Spencer-Brown accounting for the imaginary values, and the self-return of the form on itself through the Klein Bottle self-penetration. Discussed the relations of some of these topics with Neutrosophics and particularly in physics and topological chemistry, as an ontology related to metamorphoses, as is already the case of the electron and the photon, as in the Dirac-Hestenes equation for the spinor-operator field and the Maxwell equations. Also, in relation to the paradoxical structure of the real numbers, and particularly its bearing to the evolution of generic non-linear systems and chaos, and the self-return of a non-linear system on itself as cyclic behavior of destruction and reorganization.

List of Publications in Neutrosophics


Rapoport D.L. Klein Bottle Logophysics, Self Reference, Heterarchies, Genomic Topologies, Harmonics and Evolution. Part III. The Klein Bottle Logic of Genomics and its Dynamics, Quantum Information, Complexity and


PhD candidate

Abdolreza Rashno

Affiliation
Isfahan University of Technology / IRAN

Profile

BS degree in Computer Engineering from Shahid Chamran University of Ahvaz, Iran, in 2009, and MSc degree (with honors) in Artificial Intelligence Engineering from Kharazmi University of Tehran, Iran, in 2011. Currently, Ph.D. candidate of Computer Engineering at Isfahan University of Technology, Iran, and visiting researcher student at University of Minnesota, USA.

Research Interests

Medical Image Processing and Analysis; Image Segmentation; Content-Based Image Retrieval; Image Restoration Evolution Computing; Machine Learning; Neutrosophic Set and Logic.

List of Publications in Neutrosophics


Rashno, Abdolreza, Keshab K. Parhi, Behzad Nazari, Saeed Sadri, Hossein Rabbani, Paul Drayna, and Dara D. Koozekanani. "Automated intra-retinal, sub-retinal and sub-RPE cyst regions segmentation in age-related macular degeneration..."


PhD Candidate

Mridula Sarkar  
Assistant Professor in Mathematics

Affiliation
Department of Mathematics
Indian Institute of Engineering Science and Technology
Shibpur, P.O-Botanic Garden
Howrah - 711103, West Bengal / INDIA

Profile

Bachelor of Science in Mathematics in 2009 from University of Calcutta and Master of Science in Applied Mathematics in 2011 from Bengal Engineering and Science University, Shibpur, West Bengal, India. Thesis submitted for the award of the degree of Doctor of philosophy in Mathematics to Indian Institute of Engineering Science and Technology, Shibpur under the supervision of Prof. Tapan Kumar Roy (Dept. of Mathematics, IIESTS) and Tapash Kumar Roy (Dept. of Civil Engineering, IIESTS). In 2017, joined as Assistant Professor in Department of Mathematics in Bankura Sammilani College, Bankura, West Bengal, India.

Research Interests

Neutrosophic Set; Neutrosophic Numbers; Neutrosophic Decision Making, Neutrosophic Goal Programming; Parametrized Neurosophic Nonlinear Programming; Structural Design Optimization.

Neutrosophic Research

Contributed 10 papers in different International Journals and 1 chapter in “Neutrosophic Operational Research”, Volume 1, on neutrosophic optimization. Investigated structural design optimization as application of neutrosophic optimization and decision making. Studied neutrosophic set and neutrosophic numbers with their properties, neutrosophic decision making, single-objective neutrosophic optimization technique, muti-
objective neutrosophic optimization technique, neutrosophic goal programming technique, parameterized neutrosophic nonlinear programming in perspective of structural designs optimization.

List of Publications in Neutrosophics

*International Journal Articles*


*Chapter in Book*


Florentin Smarandache (founder and editor)
*Encyclopedia of Neutrosophic Researchers, 2nd Volume*
Dr. 

Prem Kumar Singh
Assistant Professor

Affiliation
Amity Institute of Information Technology
Amity University-201313
Noida / INDIA

Profile
Assistant Professor in the Department of Amity Institute of Information Technology, Amity University, Noida. Post Doctorate degree from Faculty of Computer Science and Information Technology, University of Malaya, Kuala Lumpur. PhD degree in Computer Science from VIT University, Vellore. Published more than 25 research papers in various peer reviewed indexed journals and conferences.

Research Interests
Data Analytics; Cognitive Computing; Graph Analytics; Soft Computing.

Neutrosophic Research
Complex Neutrosophic Set; Neutrosophic Set; Neutrosophic Graph; N-Way Neutrosophic Context; Neutrosophic Lattice.

List of Publications in Neutrosophics

Prem Kumar Singh, Medical diagnoses using three-way fuzzy concept lattice and their Euclidean distance, Computational and Applied Mathematics (Accepted for 2017 publication).


Prem Kumar Singh, Interval-valued neutrosophic graph representation of concept lattice and its (α, β, γ)-


Dr.

Dragisa Stanujkic
Associate Professor

Affiliation
Technical Faculty in Bor
University of Belgrade
Bor / SERBIA

Profile

Associate Professor of Information Technology at the Technical Faculty in Bor, University of Belgrade. MSc degree in Information Science and PhD in Organizational Sciences from the Faculty of Organizational Sciences, University of Belgrade. Published papers in reputed journals, such as Informatica, Technological and economic development of economy, Journal of business economics and management, Studies in informatics and control, Inzinerine Ekonomika - Engineering Economics, etc.

Research Interests

Decision-making Theory; Informatics; Expert Systems and Intelligent Decision Support Systems.

List of Publications in Neutrosophics


Dr.

I. R. Sumathi
Assistant Professor

Affiliation
Department of Mathematics
Kumaraguru College of Technology
Coimbatore, Tamilnadu / INDIA

Profile
PhD in Mathematics from Bharathiar University. Eight years of teaching experience in the field of Mathematics. Currently working as Assistant Professor at Kumaraguru College of Technology, Coimbatore, Tamilnadu, India.

Research Interests
Fuzzy Set; Neutrosophic set; Soft set; Topology.

List of Publications in Neutrosophics

Papers


*International Conferences*


I.R.Sumathi and I.Arockiarani ‘D-Algebras of fuzzy neutrosophic set’, India-Taiwan Cooperation(2015)- International workshop on intelligent data analysis techniques (IWIDAT 2015) held on 17th March 2015 at Department of Mathematics, Ramanujan School of Mathematical Sciences,
Pondicherry University (A central university of India)
Pondicherry-605014, India.

**National Conferences**


Dr.

**Mehmet Şahin**

*Associate Professor*

**Affiliation**
Faculty of Mathematics
University of Gaziantep
Gaziantep / TURKEY

**Profile**

Born in 1965 in Adıyaman, Turkey. Received the MS degree of the Hacettepe University in 1994, and PhD degree of the Karadeniz Technical University in 2004. Associate Professor since 1991 at the Department of Mathematics, University of Gaziantep. Author of more than twenty scientific papers on mathematics. Member of the editorial board of four journals.

**Research Interests**

Fuzzy Sets; Soft Sets; Neutrosophic Sets; Neutrosophic Soft Sets; Neutrosophic Soft Expert Sets; Interval Valued Neutrosophic Soft Sets; Generalized Neutrosophic Sets.

**Neutrosophic Research**

Currently looking forward to develop Neutrosophic Theory in the parlance of Soft Set Theory. Interested in various aspects of algebra and analysis in the ground of neutrosophic soft set theory and its implementation in solving real life decision making problems.

**List of Publications in Neutrosophics**


PhD Candidate

Bianca-Mădălina Teodorescu

Affiliation
University of Craiova
13 A. I. Cuza Street
Craiova / ROMANIA

Profile
Graduate of the Faculty of Letters of Craiova, University of Craiova (Romania), and currently a PhD Candidate at the same faculty. Published several articles in scientific journals in Romania, Poland and Australia, and is author and co-author of two books, published in Germany and Belgium.

Research Interests
Anthropology, Neutrosophy, Communication.

List of Publications in Neutrosophics


Dr. Ramalingam Udhayakumar
Assistant Professor

Affiliation
Dept. of Mathematics
School of Advanced Sciences
Vellore Institute of Technology (VIT)
Vellore - 632 014
Tamil Nadu / INDIA

Profile

Research Interests
Homological Algebra, General Topology.

List of Publications in Neutrosophics


Dr.

Vakkas Uluçay

Profile
Born in 1985 in Gaziantep, Turkey. Received the MS degree from the Gaziantep University in 2008-2010, and PhD degree of the Gaziantep University in 2013-2017.

Research Interests
Fuzzy Sets; Soft Sets; Neutrosophic Sets; Neutrosophic Soft Sets; Neutrosophic Soft Expert Sets; Neutrosophic Multi Criteria Making; Refined Set; Neutrosophic Graph Theory; Interval Valued Neutrosophic Soft Sets, Generalized Neutrosophic Sets.

Neutrosophic Research
Innovative research in decision making and optimization in uncertain environment, namely fuzzy, intuitionistic and neutrosophic environment.

List of Publications in Neutrosophics


Dr.

Maikel Yelandi Leyva Vázquez

Professor

Affiliation
Carrera de Ingeniería en Sistemas Computacionales
Universidad de Guayaquil
Guayaquil / ECUADOR

Profile


Research Interests

Neutrosophic and Fuzzy Cognitive Maps; Computing with words (CWW); Social Network Analysis; Softcomputing for decision support and knowledge discovery.

Neutrosophic Research

Multicriteria Decision Support using SVN numbers; Static Analysis of Neutrosopic Cognitive Maps; Knowledge Based Recommender Systems.
List of Publications in Neutrosophics


This is the second volume of the *Encyclopedia of Neutrosophic Researchers*, edited from materials offered by the authors who responded to the editor’s invitation.

The authors are listed alphabetically, and represent the following countries: Angola, Argentina, P.R. China, Denmark, Dominican Republic, Ecuador, Egypt, India, Iraq, Iran, Jordan, South Korea, Morocco, Nigeria, Pakistan, Romania, Serbia, Syria, Turkey, S.R. Vietnam.

The introduction contains an updated *history of neutrosophics*, together with *links* to the most important papers and books.

Neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics, neutrosophic measure, neutrosophic precalculus, neutrosophic calculus and so on are gaining significant attention in solving many real life problems that involve uncertainty, impreciseness, vagueness, incompleteness, inconsistent, and indeterminacy.

In the past years, the fields of neutrosophics have been extended and applied in various fields, such as: artificial intelligence, data mining, soft computing, decision making in incomplete / indeterminate / inconsistent information systems, image processing, computational modelling, robotics, medical diagnosis, biomedical engineering, investment problems, economic forecasting, social science, humanistic and practical achievements.