

DECISION SCIENCES

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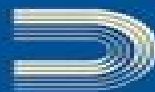
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Mathematics Of The Decision Science Volume

Florentin Smarandache, Mumtaz Ali



Mathematics Of The Decision Science Volume :

Mathematics of the Decision Sciences George Bernard Dantzig, Arthur F. Veinott, 1968 **Foundations of Software Science and Computation Structures** Orna Kupferman, Pawel Sobocinski, 2023-04-20 This open access book constitutes the proceedings of the 26th International Conference on Foundations of Software Science and Computational Structures FOSSACS 2023 which was held during April 22-27 2023 in Paris France as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2023. The 26 regular papers presented in this volume were carefully reviewed and selected from 85 submissions. They deal with research on theories and methods to support the analysis, integration, synthesis, transformation, and verification of programs and software systems. *Collected Papers. Volume XIII* Florentin Smarandache, 2022-09-15 This thirteenth volume of Collected Papers is an eclectic tome of 88 papers in various fields of sciences such as astronomy, biology, calculus, economics, education, and administration, game theory, geometry, graph theory, information fusion, decision making, instantaneous physics, quantum physics, neutrosophic logic, and set non-Euclidean geometry, number theory, paradoxes, philosophy of science, scientific research methods, statistics, and others, structured in 17 chapters: Neutrosophic Theory and Applications, Neutrosophic Algebra, Fuzzy Soft Sets, Neutrosophic Sets, Hypersoft Sets, Neutrosophic Semigroups, Neutrosophic Graphs, Superhypergraphs, Plithogeny, Information Fusion, Statistics, Decision Making, Extenics, Instantaneous Physics, Paradoxism, Mathematica, Miscellanea, comprising 965 pages published between 2005-2022 in different scientific journals by the author alone or in collaboration with the following 110 co-authors, alphabetically ordered from 26 countries: Abdullah Gamal Sania Afzal Firoz Ahmad Muhammad Akram Sheriful Alam Ali Hamza Ali H M Al Obaidi Madeleine Al Tahan Assia Bakali Atiqe Ur Rahman Sukanto Bhattacharya Bilal Hadjadji Robert N Boyd Willem K M Brauers Umit Cali Youcef Chibani Victor Christianto Chunxin Bo Shyamal Dalapati Mario Dalc n Arup Kumar Das Elham Davneshvar Bijan Davvaz Irfan Deli Muhammet Deveci Mamouni Dhar R Dhavaseelan Balasubramanian Elavarasan Sara Farooq Haipeng Wang Ugur Halden Le Hoang Son Hongnian Yu Qays Hatem Imran Mayas Ismail Saeid Jafari Jun Ye Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi Abdullah Karg n Vasilios N Katsikis Nour Eldeen M Khalifa Madad Khan M Khoshnevisan Tapan Kumar Roy Pinaki Majumdar Sreepurna Malakar Masoud Ghods Minghao Hu Mingming Chen Mohamed Abdel Basset Mohamed Talea Mohammad Hamidi Mohamed Loey Mihnea Alexandru Moisesescu Muhammad Ihsan Muhammad Saeed Muhammad Shabir Mumtaz Ali Muzzamal Sitara Nassim Abbas Munazza Naz Giorgio Nardo Mani Parimala Ion P tra cu Gabrijela Popovi K Porselvi Surapati Pramanik D Preethi Qiang Guo Riad K Al Hamido Zahra Rostami Said Broumi Saima Anis Muzafer Sara evi Ganeshsree Selvachandran Selvaraj Ganesan Shammya Shananda Saha Marayanagaraj Shanmugapriya Songtao Shao Sori Tjandrah Simbolon Florentin Smarandache Predrag S Stanimirovi Dragi a Stanujki Raman Sundareswaran Mehmet ahin Ovidiu Ilie andru Abdulkadir eng r Mohamed Talea Ferhat Ta Sel uk Topal Alptekin Uluta Ramalingam Udhayakumar Yunita Umniyati J Vimala Luige Vl d reanu tefan Vl du escu Yaman Akbulut Yanhui Guo Yong

Deng You He Young Bae Jun Wangtao Yuan Rong Xia Xiaohong Zhang Edmundas Kazimieras Zavadskas Zayen Azzouz Omar Xiaohong Zhang Zhirou Ma **Collected Papers. Volume XIV** Florentin Smarandache, 2022-11-01 This fourteenth volume of Collected Papers is an eclectic tome of 87 papers in Neutrosophics and other fields such as mathematics fuzzy sets intuitionistic fuzzy sets picture fuzzy sets information fusion robotics statistics or extenics comprising 936 pages published between 2008 2022 in different scientific journals or currently in press by the author alone or in collaboration with the following 99 co authors alphabetically ordered from 26 countries Ahmed B Al Nafee Adesina Abdul Akeem Agboola Akbar Rezaei Shariful Alam Marina Alonso Fran Andujar Toshinori Asai Assia Bakali Azmat Hussain Daniela Baran Bijan Davvaz Bilal Hadjadji Carlos D az Bohorquez Robert N Boyd M Caldas Cenap zel Pankaj Chauhan Victor Christianto Salvador Coll Shyamal Dalapati Irfan Deli Balasubramanian Elavarasan Fahad Alsharari Yonfei Feng Daniela G fu Rafael Rojas Gualdr n Haipeng Wang Hemant Kumar Gianey Noel Batista Hern ndez Abdel Nasser Hussein Ibrahim M Hezam Ilanthenral Kandasamy W B Vasantha Kandasamy Muthusamy Karthika Nour Eldeen M Khalifa Madad Khan Kifayat Ullah Valeri Kroumov Tapan Kumar Roy Deepesh Kunwar Le Thi Nhung Pedro L pez Mai Mohamed Manh Van Vu Miguel A Quiroz Mart nez Marcel Migdalovici Kritika Mishra Mohamed Abdel Basset Mohamed Talea Mohammad Hamidi Mohammed Alshumrani Mohamed Loey Muhammad Akram Muhammad Shabir Mumtaz Ali Nassim Abbas Munazza Naz Ngan Thi Roan Nguyen Xuan Thao Rishwanth Mani Parimala Ion P tra cu Surapati Pramanik Quek Shio Gai Qiang Guo Rajab Ali Borzooei Nimitha Rajesh Jes s Estupi an Ricardo Juan Miguel Mart nez Rubio Saeed Mirvakili Arsham Borumand Saeid Saeid Jafari Said Broumi Ahmed A Salama Nirmala Sawan Gheorghe S voiu Ganeshsree Selvachandran Seok Zun Song Shahzaib Ashraf Jayant Singh Rajesh Singh Son Hoang Le Tahir Mahmood Kenta Takaya Mirela Teodorescu Ramalingam Udhayakumar Maikel Y Leyva V zquez V Venkateswara Rao Luige Vl d reanu Victor Vl d reanu Gabriela Vl deanu Michael Voskoglou Yaser Saber Yong Deng You He Youcef Chibani Young Bae Jun Wadei F Al Omeri Hongbo Wang Zayen Azzouz Omar *Neutrosophic Systems with Applications (NSWA), Vol. 6, 2023* Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, 2023-09-23 Papers on neutrosophic and plithogenic sets logics probabilities and statistics on NeutroAlgebra and AntiAlgebra NeutroGeometry and AntiGeometry SuperHyperAlgebra and Neutrosophic SuperHyperAlgebra etc **Neutrosophic Systems with Applications (NSWA), Vol. 5, 2023** Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, 2023-09-23 Papers on neutrosophic and plithogenic sets logics probabilities and statistics on NeutroAlgebra and AntiAlgebra NeutroGeometry and AntiGeometry SuperHyperAlgebra and Neutrosophic SuperHyperAlgebra etc *Neutrosophic Systems with Applications (NSWA), Vol. 4, 2023* Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, Papers on neutrosophic and plithogenic sets logics probabilities and statistics on NeutroAlgebra and AntiAlgebra NeutroGeometry and AntiGeometry SuperHyperAlgebra and Neutrosophic SuperHyperAlgebra etc **Neutrosophic Systems with Applications (NSWA), Vol. 3, 2023** Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, Theories and applications of neutrosophic and

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Neutrosophic Systems with Applications (NSWA), Vol. 1, 2023 Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, 2023-09-23 Papers on neutrosophic and plithogenic sets logics probabilities and statistics Neutrosophic Systems with Applications (NSWA), Vol. 2, 2023 Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, Papers on neutrosophic and plithogenic sets logics probabilities and statistics on NeutroAlgebra and AntiAlgebra NeutroGeometry and AntiGeometry SuperHyperAlgebra and Neutrosophic SuperHyperAlgebra etc *Neutrosophic Systems with Applications (NSWA), Vol. 9, 2023* Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, 2023-09-23 Papers on neutrosophic and plithogenic sets logics probabilities and statistics on NeutroAlgebra and AntiAlgebra NeutroGeometry and AntiGeometry SuperHyperAlgebra and Neutrosophic SuperHyperAlgebra etc Neutrosophic Systems with Applications (NSWA), Vol. 7, 2023 Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, 2023-09-23 Papers on neutrosophic and plithogenic sets logics probabilities and statistics on NeutroAlgebra and AntiAlgebra NeutroGeometry and AntiGeometry SuperHyperAlgebra and Neutrosophic SuperHyperAlgebra etc *Neutrosophic Sets and Systems, vol. 50/2022* Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, 2022-06-01 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 **Collected Papers. Volume VII** Florentin Smarandache, 2022-02-01 This seventh volume of Collected Papers includes 70 papers comprising 974 pages on theoretic and applied neutrosophics written between 2013 2021 by the author alone or in

collaboration with the following 122 co authors from 22 countries Mohamed Abdel Basset Abdel Nasser Hussian C Alexander Mumtaz Ali Yaman Akbulut Amir Abdullah Amira S Ashour Assia Bakali Kousik Bhattacharya Kainat Bibi R N Boyd mit Budak Lulu Cai Cenap zel Chang Su Kim Victor Christianto Chunlai Du Chunxin Bo Rituparna Chutia Cu Nguyen Giap Dao The Son Vinayak Devvrat Arindam Dey Partha Pratim Dey Fahad Alsharari Feng Yongfei S Ganesan Shivam Ghildiyal Bibhas C Giri Masooma Raza Hashmi Ahmed Refaat Hawas Hoang Viet Long Le Hoang Son Hongbo Wang Hongnian Yu Mihaiela Iliescu Saeid Jafari Temitope Gbolahan Jaiyeola Naeem Jan R Jeevitha Jun Ye Anup Khan Madad Khan Salma Khan Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi Kifayat Ullah Kishore Kumar P K Sujit Kumar De Prasun Kumar Nayak Malayalan Lathamaheswari Luong Thi Hong Lan Anam Luqman Luu Quoc Dat Tahir Mahmood Hafsa M Malik Nivetha Martin Mai Mohamed Parimala Mani Mingcong Deng Mohammed A Al Shumrani Mohammad Hamidi Mohamed Talea Kalyan Mondal Muhammad Akram Muhammad Gulistan Farshid Mofidnakhaei Muhammad Shoaib Muhammad Riaz Karthika Muthusamy Nabeela Ishfaq Deivanayagampillai Nagarajan Sumera Naz Nguyen Dinh Hoa Nguyen Tho Thong Nguyen Xuan Thao Noor ul Amin Dragan Pamur Gabrijela Popovi S Krishna Prabha Surapati Pramanik Priya R Qiaoyan Li Yaser Saber Said Broumi Saima Anis Saleem Abdullah Ganeshsree Selvachandran Abdulkadir Seng r Seyed Ahmad Edalatpanah Shahbaz Ali Shahzaib Ashraf Shouzhen Zeng Shio Gai Quek Shuangwu Zhu Shumaiza Sidra Sayed Sohail Iqbal Songtao Shao Sundas Shahzadi Dragi a Stanujko eljko Stevi Udhayakumar Ramalingam Zunaira Rashid Hossein Rashmanlou Rajkumar Verma Luige Vl d reanu Victor Vl d reanu Desmond Jun Yi Tey Sel uk Topal Naveed Yaqoob Yanhui Guo Yee Fei Gan Yingcang Ma Young Bae Jun Yuping Lai Hafiz Abdul Wahab Wei Yang Xiaohong Zhang Edmundas Kazimieras Zavadskas Lemnaouar Zedam

Neutrosophic Sets and Systems, Vol. IV Florentin Smarandache, Mumtaz Ali, This volume is a collection of seven papers written by different authors and co authors listed in the order of the papers A A Salama F Smarandache Valeri Kroumov A A A Agboola S A Akinleye M Ali M Shabir M Naz I Deli Y Toktas S Broumi Z Zhang C Wu S A Alblowi C Dyer In first paper the authors proposed Neutrosophic Closed Set and Neutrosophic Continuous Function Neutrosophic Vector spaces are proposed in the second paper Neutrosophic Bi LA Semigroup and Neutrosophic N LA Semigroup is studied in third paper In fourth paper Neutrosophic Parameterized Soft Relations and Their Applications are introduced Similarly in fifth paper A novel method for single valued neutrosophic multi criteria decision making with incomplete weight information are discussed In paper six New Neutrosophic Crisp Topological Concept is presented by the authors Soft Neutrosophic Loops and Their Generalization is given in seventh paper *Neutrosophic Theory and Its Applications, Vol. I* Florentin

Smarandache, 2014-12-01 This volume contains 45 papers written by the author alone or in collaboration with the following co authors Mumtaz Ali Said Broumi Sukanto Bhattacharya Mamoni Dhar Irfan Deli Mincong Deng Alexandru Gal Valeri Kroumov Pabitra Kumar Maji Maikel Leyva Vazquez Feng Liu Pinaki Majumdar Munazza Naz Karina Perez Teruel R dvan Sahin A A Salama Muhammad Shabir Rajshekhar Sunderraman Luige Vladareanu Magdalena Vladila Stefan Vladutescu

Haibin Wang Hongnian Yu Yan Qing Zhang *On Pseudospherical Smarandache Curves in Minkowski 3-Space* Esra Betul Koc Ozturk, Ufuk Ozturk, KazimI larlan,Emilija Nešovic, In this paper we define nonnull and null pseudospherical Smarandache curves according to the Sabban frame of a spacelike curve lying on pseudosphere in Minkowski 3 space

Restoration Methods Selection for Wood Components of Chinese Ancient Architectures Based on TODIM with Single-Valued Neutrosophic Sets Xiaolu Long,Lizhi Liu,Can Xiao,Pengfei Cheng,Chengxun Fu, The selection of restoration methods for ancient architectures is of great significance for the protection of human cultural heritage This paper proposes a novel restoration methods selection approach for wood components of Chinese ancient architectures in which a multicriteria group decision making MCGDM method with decision making information is in the form of singlevalued neutrosophic sets SNNs Firstly it establishes an index system by comprehensively considering subjective and objective criteria In addition the best worst method BWM and the entropy weight method are combined to produce index weights Furthermore the TODIM method is utilized by the single valued neutrosophic sets to prioritize restoration methods Finally a specific case of wood component restoration is conducted to demonstrate the practicability of the proposed model e robustness and effectiveness of the proposed method is verified by sensitivity analysis and comparison analysis **Neutrosophic Sets and Systems, vol. 4/2014** A. A. Salama,Florentin Smarandache,Valeri Kroumov,A. A. A. Agboola,M. Shabir , Christopher Dyer,Z. Zhang,I. Deli,Said Broumi, 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

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web 1 examine the drawings of the salamanders in figure 1 below you and your group must work together to identify each salamander using the key on pg 3 figure 2 2 use the dichotomous key below figure 2 to determine the genus and species of each salamander step 1 read statements 1a and 1b

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