A single-valued neutrosophic set has the power to express uncertainty characterized by indeterminacy, inconsistency, and applications of AI. The volume also contains the accepted papers from the First Workshop on Computational Intelligence in Software Engineering (CISE 2011) and the Workshop on ANN, machine learning, genetic algorithms, data mining, reinforcement learning, Web applications of ANN, medical applications of ANN, and ethics of AI, and environmental and earth vision and robotics, classification/pattern recognition, financial and management applications of AI, fuzzy systems, learning and novel algorithms, recurrent and radial basis function from 150 submissions. The second volume includes the papers that were accepted for presentation at the AIAI 2011 conference. They are organized in topical sections on computer jointly in Corfu, Greece, in September 2011. The 52 revised full papers and 28 revised short papers presented together with 31 workshop papers were carefully reviewed and selected. Subsequently, a new distance measure between two MVNNs is defined for deriving the objective criteria weights. The two-volume set IFIP AICT 363 and 364 constitutes the refereed.
Download Free Intuitionistic Fuzzy Multicriteria Group Decision Making and TOPSIS to enhance the traditional methods of personnel selection to achieve the ideal solutions. By reaching the ideal solutions, the smart village will enhance the resource different alternatives. A case study on smart village Cairo Egypt is developed based on decision maker’s judgments recommendations. The proposed study applies neutrosophic AHP integrating neutrosophic analytical hierarchy process (AHP) with the technique for order preference by similarity to an ideal solution (TOPSIS) to illustrate an ideal solution amongst

The environment of decision making is a multi-criteria decision making surrounded by inconsistency and uncertainty. This paper contributes to support personnel selection process by applicant. Unfortunately, the numerous criterions, alternatives, and goals make the process of choosing among several applicants is very complex and confusing to decision making.

Trapezoidal Neutrosophic Numbers in Transportation Problem. Personnel selection is a critical obstacle that influences the success of the enterprise. The complexity of personnel etc. Some articles in this issue: Neutrosophic Soft Fixed Points, Selection of Alternative under the Framework of Single-Valued Neutrosophic Sets, Application of Single Valued neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology,

AOs considering the argument interrelationships. The reviewed papers are mainly about the development of the CI, the PA, the BM, the HM, and the MSM in (fuzzy) MCDMs, most of operators and summarize their advantages and disadvantages. Furthermore, we discuss the applications of these operators. Finally, we identify some future research directions in the

we make a comprehensive survey on the aggregation operators (AOs) that consider the argument interrelationships in crisp and fuzzy settings. In particular, we discuss the mechanisms

any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc.Aggregation function is an important component in an information aggregation or

publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in

professionals associated with the field. The concept of Information is to disseminate scientific results achieved via experiments and theoretical results in depth. It is very important to

pattern recognition, construction problems, technology selection, and more, under the Pythagorean fuzzy environment, making it of much value to students, researchers, and

Rough Neutrosophic TOPSIS for Multi-Attribute Group Decision Making; Introduction to Neutrosophic Soft Groups. Keywords: neutrosophy, neutrosophic set, neutrosophic logic,

Determinants that underpin the competitiveness of the rice industry in Yaguachi canton. Application of SVN numbers to the prioritization of strategies; Classical Logic and Neutrosophic

Problems; Irregular Neutrosophic Graphs; Neutrosophic Features for Image Retrieval; Truss Design Optimization using Neutrosophic Optimization Technique; Marketing skills as

Regular Single Valued Neutrosophic Hypergraphs; Triangular Dense Fuzzy Neutrosophic Sets; Applications of Fuzzy and Neutrosophic Logic in Solving Multi-criteria Decision Making


In this paper, we use the score functions, the accuracy functions, and the hybrid score-accuracy functions of single-valued neutrosophic hybrid score-accuracy functions for approving a tender for construction under a simplified neutrosophic environment. Five criteria have been selected from experts' opinions to be considered for the distribution of tender. In this paper, we use the score functions, the accuracy functions, and the hybrid score-accuracy functions of single-valued neutrosophic hybrid score-accuracy functions for approving a tender for construction under a simplified neutrosophic environment. Five criteria have been selected from experts' opinions to be considered for the distribution of tender.

The purpose of this study is to develop a neutrosophic multi-criteria group decision-making (MCGDM) model based on personnel selection/partner selection. A number of new approaches are proposed that are expected to attract great interest from the research community. In this article, we introduce some approaches for decision making in the neutrosophic set. The purpose of this study is to develop a neutrosophic multi-criteria group decision-making (MCGDM) model based on personnel selection/partner selection. A number of new approaches are proposed that are expected to attract great interest from the research community. In this article, we introduce some approaches for decision making in the neutrosophic set.

The papers are mainly concentrated in three application areas: supplier selection and rational order allocation, the evaluation and selection of goods or facilities, and information management is a common paradigm in modern decision-making. A wide range of decision-making techniques have been proposed in the literature to model decision problems. This book offers a concise introduction and comprehensive overview of the state of the art in the field of decision-making and consensus modeling, with a special emphasis on fuzzy MADM approaches, in addition to a single paper proposing an interactive multi-objective decision-making (MODM) approach. Particular attention is devoted to information.

This book includes results of the seventh International Conference on Fuzzy Information and Engineering (ICFIE'2014) and the 1st International Conference of Operations Research and Management (ICORM'2014) on November 7-11, 2014 in ZhuHai, China. The book, contains 35 selected high-quality papers, and is divided into five main parts: Part I discusses a range of promising real-world applications in the field of decision-making science. It is a timely reference guide and a source of inspiration for advanced students and practitioners.

Big data analytics refers to the strategy of analyzing large volumes of data, or big data, gathered from a wide variety of sources, including social networks, videos, websites, search logs, terrabytes of financial data, digital images, sensors, and sales transaction records. Big data analytics allows data scientists and various other users to evaluate large volumes of transaction data and other data sources that traditional business systems would be unable to tackle. Data-driven and knowledge-driven approaches and techniques have been widely used in intelligent decision-making and they are increasingly attracting attention due to their importance and effectiveness in addressing uncertainty and incompleteness.

In this research article, we envisage the neutrosophic number from various distinct rational perspectives & viewpoints to give it a look of a conundrum. We focused & analysed various types of linear and non-linear generalized trapezoidal neutrosophic numbers which serves an indispensable role for uncertainty concept related research activities in group decision making have dramatically increased over the last decade. In particular, the application of multiple attribute decision-making methods focused & analysed various types of linear and non-linear generalized trapezoidal neutrosophic numbers which serves an indispensable role for uncertainty concept related research activities. The research activities in group decision making have dramatically increased over the last decade. In particular, the application of multiple attribute decision-making methods focused & analysed various types of linear and non-linear generalized trapezoidal neutrosophic numbers which serves an indispensable role for uncertainty concept related research activities.

Accordingly, the book offers a valuable guide for researchers. This book offers a concise introduction and comprehensive overview of the state of the art in the field of decision-making and consensus modeling, with a special emphasis on fuzzy MADM approaches, in addition to a single paper proposing an interactive multi-objective decision-making (MODM) approach. Particular attention is devoted to information.
A method for multi-criteria decision-making that combines simplified neutrosophic linguistic sets and normalized Bonferroni mean operator to address situations where the criterion values take the form of simplified neutrosophic linguistic numbers and the criterion weights are known. The new operations and comparison involve neutrosophic information. Some topics deal with data mining, decision making, e-learning, graph theory, medical diagnosis, probability theory, topology, and some more. 30 literature in a short period of time. Neutrosophic set has been a very important tool in all various areas of data mining, decision making, e-learning, engineering, medicine, social science research, and other fields. In the hybrid structure such as rough neutrosophic set, single valued neutrosophic rough set, bipolar neutrosophic set, single valued neutrosophic hesitant fuzzy set, etc. are proposed in the fields of interval neutrosophic numbers. The different neutrosophic set consists of interval neutrosophic set and single valued neutrosophic set simultaneously. Due to its unique structure, neutrosophic cubic set has been a very important tool in all various areas of data mining, decision making, e-learning, engineering, medicine, social science research, and other fields. In the hybrid structure such as rough neutrosophic set, single valued neutrosophic rough set, bipolar neutrosophic set, single valued neutrosophic hesitant fuzzy set, etc. are proposed in the fields of interval neutrosophic numbers. The different......
Talent evaluation and selection is one of the main activities in human resource management (HRM) which is critical for university development. Firstly, linguistic neutrosophic sets (LNSs) are introduced to better express multiple uncertain information during the evaluation procedure. We further merge the power averaging operator with LNSs for information aggregation and propose a LN-power weighted averaging (LNPWA) operator and a LN-power weighted geometric (LNPWG) operator. Then, an extended technique for order preference by similarity to ideal solution (TOPSIS) method is developed to solve a case of university HRM evaluation problem. The main contribution and novelty of the proposed method rely on that it allows the information provided by different decision makers (DMs) to support and reinforce each other which is more consistent with the actual situation of university HRM evaluation. In addition, its effectiveness and advantages over existing methods are verified through sensitivity and comparative analysis. The results show that the proposal is capable in the domain of university HRM evaluation and may contribute to the talent introduction in universities.