Trapezoidal Approximation Of Fuzzy Numbers

Trapezoidal Approximation Of Fuzzy NumbersBing: Trapezoidal Approximation Of Fuzzy NumbersWhat is Trapezoidal Fuzzy Number (TpFN) | IGI GlobalWeighted trapezoidal approximation-preserving cores of a ...TRAPEZOIDAL APPROXIMATION OF FUZZY NUMBERSThe Symmetric Trapezoidal Approximations of Fuzzy NumbersTrapezoidal Approximations of Fuzzy Numbers | Request PDFAlgorithms for Trapezoidal Approximations of Fuzzy Numbers ...Trapezoidal Approximation of a Fuzzy Number Preserving the ...Approximation of intuitionistic fuzzy numbers by ...Trapezoidal approximations of fuzzy numbers - ScienceDirectApproximations of Fuzzy Numbers by General Trapezoidal ...Trapezoidal approximations of fuzzy numbers - ScienceDirectTrapezoidal approximations of fuzzy numbers using ...Weighted Trapezoidal Approximations of Fuzzy NumbersTrapezoidal approximations of fuzzy numbers | Fuzzy Sets ...Note on "Trapezoidal approximation of fuzzy numbers ...Approximation of TFN, Trapezoidal fuzzy & Bell shaped ...The Interval-Valued Trapezoidal Approximation of Interval ...NEW METHOD OF APPROXIMATION ANY ORIENTED FUZZY NUMBER BY ...

Trapezoidal Approximation Of Fuzzy Numbers

The nearest symmetric trapezoidal approximation is presented for simplifying calculations of fuzzy numbers, which possesses the following properties: the centroid point invariance, ambuguity...

Bing: Trapezoidal Approximation Of Fuzzy Numbers

Trapezoidal Approximation of a Fuzzy Number Preserving the Expected Interval and Including the Core. B. Asady. Department of Mathematics, Islamic Azad University, Arak Branch, Arak, Iran. Email: babakmz2002@yahoo.com, b-asadi@iau-arak.ac.ir.

What is Trapezoidal Fuzzy Number (TpFN) | IGI Global

Recently, many scholars investigated interval, triangular, trapezoidal, and semi-trapezoidal approximations of fuzzy numbers. These researches can be grouped into two classes: one is to study ...

Weighted trapezoidal approximation-preserving cores of a ...

Abstract— Fuzzy number approximation by trapezoidal fuzzy numbers which preserves the expected interval is discussed. New algorithms for calculating the proper trapezoidal approximtion of fuzzy ...

TRAPEZOIDAL APPROXIMATION OF FUZZY NUMBERS

The problem of the trapezoidal approximation of fuzzy numbers is discussed. A set of criteria for approximation operators is formulated. These constraints can be

used for direct operator derivation...

The Symmetric Trapezoidal Approximations of Fuzzy Numbers

Abstract. The problem of the trapezoidal approximation of fuzzy numbers is discussed. A set of criteria for approximation operators is formulated. These constraints can be used for direct operator derivation. A new nearest trapezoidal approximation operator preserving expected interval is suggested. Previous article.

Trapezoidal Approximations of Fuzzy Numbers | Request PDF

Definition of Trapezoidal Fuzzy Number (TpFN): A fuzzy number whose membership function's graph forms a trapezoid with the OX-axis. The TpFNs are generalizations of the triangular fuzzy numbers.

Algorithms for Trapezoidal Approximations of Fuzzy Numbers ...

The criterion of identity states that the approximation of trapezoidal fuzzy numbers is equivalent to that number, i.e., (2.8) if $A \in F T (R)$ then $T (A) = A$. 2.1.5. Monotony. The criterion of monotony states that, for any two fuzzy numbers A and B, it holds that (2.9) if $A \subseteq B$ then $T (A) \subseteq T (B)$. 3. Weighted trapezoidal approximation of a fuzzy number

Trapezoidal Approximation of a Fuzzy Number Preserving the ...

As an application, we use the interval-valued trapezoidal approximation to handle fuzzy risk analysis problems, which overcome the drawback of existing fuzzy risk analysis methods. Taking into account that interval-valued fuzzy numbers can provide more flexibility to represent the imprecise information and interval-valued trapezoidal fuzzy numbers are widely used in practice, this paper devotes to seek an approximation operator that produces an interval-valued trapezoidal fuzzy number which ...

Approximation of intuitionistic fuzzy numbers by ...

Fuzzy Set Theory Lecture 20 By Prof S Chakraverty NIT Rourkela

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In Section 4 we propose an approximation operator which produces a trapezoidal fuzzy number that is the closest to given original fuzzy number among all trapezoidal fuzzy numbers having identical expected interval as the original one.As it is shown in Section 5 this operator possesses many desired properties,likecontinuity ...

Approximations of Fuzzy Numbers by General Trapezoidal ...

As an application, we use the interval-valued trapezoidal approximation to handle fuzzy risk analysis problems, which overcome the drawback of existing fuzzy risk analysis methods. Discover the...

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An intuitionistic fuzzy number A = 〈μ A, ν A 〉, where μ A and 1 - ν A are trapezoidal fuzzy numbers, is called a trapezoidal intuitionistic fuzzy number. The set of all trapezoidal intuitionistic fuzzy numbers is denoted by IF T (R).

Trapezoidal approximations of fuzzy numbers using ...

new method of approximation any oriented fuzzy number by trapezoidal one January 2020 In book: 13th International Scientific Conference "Analysis of International Relations 2020.

Weighted Trapezoidal Approximations of Fuzzy Numbers

A more generous approximation of the fuzzy number is with a triangular fuzzy number, so a —type III approximationfl(e.g. in [11]), and the approximation with a trapezoidal will be called —type IV approximationfl(e.g. in [8], [9], [50], [51], [52], [53]).

Trapezoidal approximations of fuzzy numbers | Fuzzy Sets ...

In [2], it is stated that "if T (A) = T(t 1 ,t 2 ,t 3 ,t 4) is the nearest trapezoidal to fuzzy number A then t 1 = t 1 (A) =−6 integraldisplay 1 0 afii9825A l (afii9825) dafii9825 + 4 integraldisplay 1 0 A l (afii9825) dafii9825, t 2 = t 2 (A) = 6 integraldisplay 1 0 afii9825A l (afii9825) dafii9825 − 2 integraldisplay 1 0 A l (afii9825) dafii9825, ∗ Corresponding author.

Note on "Trapezoidal approximation of fuzzy numbers ...

First, the goal was to approximate fuzzy numbers by interval, triangular or trapezoidal fuzzy numbers (see, e.g.,,,,,) but later the studies were extended to other classes of fuzzy numbers (or other specific classes of fuzzy quantities as for example in) such as so called semi-trapezoidal fuzzy numbers, L-R fuzzy numbers or fuzzy numbers with continuous piecewise linear functions in the parametric representation (see, e.g.,,,,,,,).

Approximation of TFN, Trapezoidal fuzzy & Bell shaped ...

Abstract. Recently, many scholars investigated interval, triangular, trapezoidal, and semi-trapezoidal approximations of fuzzy numbers. These researches can be grouped into two classes: one is to study approximations of fuzzy numbers without any constraint; the other one is to study approximations preserving some attributes. In this paper, we propose two general approximations of fuzzy numbers named general f-trapezoidal approximation and general f-triangular approximation.

The Interval-Valued Trapezoidal Approximation of Interval ...

Fuzzy number approximation by trapezoidal fuzzy numbers which preserves the expected interval is discussed. New algorithms for calculating the proper approximations are proposed.

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