

## FORTRAN IV programs for fuzzy set analysis

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This paper describes a series of programs, written in FORTRAN IV for the DEC 1091 computer, that performs various kinds of data analysis using fuzzy set concepts and techniques. These programs are based on standard FORTRAN 77 and call no special subroutines, and thus are highly portable. Since fuzzy set theory and its applications still are rather unfamiliar to most behavioral and social scientists, this paper begins with a brief review of concepts, followed by descriptions of the models and statistics used in these programs. The subsequent section describes the input and output of the programs themselves. Finally, program limitations and system requirements are discussed.

**Fuzzy Set Concepts and Techniques.** A set is fuzzy when an element may belong partially (or in degree) to it, rather than belonging either totally or not at all. Formally, fuzzy sets are those in which the characteristic function is allowed to take values in the  $[0,1]$  interval instead of the classic restriction to the pair of values  $\{0,1\}$ . Zadeh (1965) proposed the first complete fuzzy set theory, which since has seen many modifications and refinements. The programs described in this paper, however, are based on foundations in fuzzy set theory that have rather wide acceptance among both theorists and researchers.

Given data points  $N_i$ , the customary notation is to denote membership values in a fuzzy set by  $\mu_i$ , which formally distinguishes between elements and their respective degrees of membership in the referent set. In the discussion to follow, measures and operators will be described for the fuzziness of a set, intersection between two fuzzy sets, and fuzzy set inclusion.

Since one of the appeals of fuzzy set theory is its conceptual basis for categories with blurred edges, it seems crucial to have an appropriate measure of how fuzzy a category actually is. Measures of fuzziness have been much discussed in the fuzzy set literature (see De Luca & Termini, 1972; Knopfmacher, 1975; Loo, 1977). The approach used in the programs described here follows Smithson's (1982) generalization of relative variation. The specific measure used is

$$T_2 = 1 - \left[ \frac{N}{\sum_{i=1}^N \mu_i^2 - N\bar{\mu}^2} / \frac{N}{\sum_{i=1}^N Q_i^2 - N\bar{Q}^2} \right]^{1/2}, \quad (1)$$

where the  $Q_i$  equal 0 or 1 on the following basis: (1) The number of 1-valued  $Q_i$  equals the whole-number part of

$N\bar{\mu}$ . (2) The remaining fractional part of  $N\bar{\mu}$  is represented by a 0-valued  $Q_i$  if it is less than 0.5; otherwise, it is represented by a 1-valued  $Q_i$ . (3) All remaining  $Q_i$  equal 0.

$1 - T_2$  is the proportion of maximum possible variation in the  $\mu_i$  given  $N$  and  $\bar{\mu}$ , so  $T_2$  becomes 0 when all  $\mu_i$  take on only values of 0 and 1, and takes the value of 1 when all  $\mu_i$  are equal (which is the condition in which the set is so fuzzy that it fails to distinguish among any gradations of membership). One of the advantages of  $T_2$  is that it can be partitioned by individual subject, stimulus, or referent set along the lines suggested in standard ANOVA procedures (further details are available in the relevant program documentation and also in Smithson, 1982).

Fuzzy set intersection and union are defined in a manner that reduces to ordinary set union and intersection, and therefore incorporates familiar properties. Likewise, as in classical set theory and logic, intersection is identified with logical "and" while union is identified with logical conjunctive "or." It is also possible to define the disjunctive "or" for fuzzy sets. Several different operators have been proposed for intersection and union in fuzzy set theory (for reviews, see Smithson, 1984, and Trillas, Alsina, & Valverde, 1982). The most widely accepted operators are the min-max family, first proposed by Zadeh (1965). The product operators are probably the second most popular. The list given below contains all the operators included in the program that performs multivariate analysis using "and" and "or" models. In these formulas,  $A(\mu_1, \mu_2)$  denotes "and" (or intersection),  $O(\mu_1, \mu_2)$  denotes the conjunctive "or" (union), and  $XO(\mu_1, \mu_2)$  denotes the disjunctive "or."

Min-max operators are: (2)

$$\begin{aligned} A(\mu_1, \mu_2) &= \min(\mu_1, \mu_2), \\ O(\mu_1, \mu_2) &= \max(\mu_1, \mu_2), \text{ and} \\ XO(\mu_1, \mu_2) &= \min[\max(\mu_1, \mu_2), 1 - \min(\mu_1, \mu_2)]. \end{aligned}$$

Product operators: (3)

$$\begin{aligned} A(\mu_1, \mu_2) &= \mu_1 \mu_2, \\ O(\mu_1, \mu_2) &= \mu_1 + \mu_2 - \mu_1 \mu_2, \text{ and} \\ XO(\mu_1, \mu_2) &= (1 - \mu_1 \mu_2)(\mu_1 + \mu_2 - \mu_1 \mu_2). \end{aligned}$$

Bounded sum operators: (4)

$$\begin{aligned} A(\mu_1, \mu_2) &= \max(0, \mu_1 + \mu_2 - 1), \\ O(\mu_1, \mu_2) &= \min(1, \mu_1 + \mu_2), \text{ and} \\ XO(\mu_1, \mu_2) &= 1 - |1 - (\mu_1 + \mu_2)|. \end{aligned}$$

q-type operators: (5)

$$\begin{aligned} A(\mu_1, \mu_2) &= \min(\mu_1, \mu_2) - qZ, \\ O(\mu_1, \mu_2) &= \max(\mu_1, \mu_2) + qZ, \text{ and} \\ XO(\mu_1, \mu_2) &= H + q^2Z, \end{aligned}$$

where  $Z = .5(1 - |\mu_1 - \mu_2| - |1 - (\mu_1 + \mu_2)|)$  and  $H = .5(1 + |\mu_1 - \mu_2| - |1 - (\mu_1 + \mu_2)|)$ , for  $q \geq 0$  and  $\leq 1$ .

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web nov 10 2023 the mule 4010 models are powered by a 617cc twin cylinder engine that is known for being nice and quiet this engine is loaded with low end torque giving this small model some pretty impressive pulling abilities and making it a real workhorse if you re allowed to call a mule that name

**kawasaki mule 4010 4x4 side x side high quality workhorse** - Dec 09 2022

web kawasaki mule 4010 4x4 side by sides deliver muscle with a dependable fuel injected 617cc v twin engine the smooth running liquid cooled four stroke starts easily whether it s hot or cold and provides steady torque for smooth responsive power when you need it

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web model specs bright white 2 to 4 passenger trans cab system horn and universal key power capability details view warranty info download specs curb weight includes all necessary materials and fluids to operate correctly full tank of fuel more than 90 percent capacity and tool kit if supplied

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web the 2022 kawasaki mule 4010 4x4 side x side features selectable 2wd 4wd dual mode rear differential with diff lock and a powerful 617cc v twin engine for when the terrain gets tough

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web sep 25 2020 introduced in the mid 2010s the mule 4010 4x4 is a small but dependable vehicle helping many to haul cargo and transport people in places that are too tight for a full sized pickup the 647 cc fuel injected v twin motor in this manages a respectable 34 7 ft lb torque and able to tow 1 200 pounds and can carry 800 pounds as well

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web overview mule 4010 trans4x4 side by sides are versatile mid size two to four passenger workhorses that are capable of putting in a hard day of work as well as touring around the property with the trans cab system you get enough room for materials or your entire crew featuring 2 to 4 passenger trans cab system

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web oct 25 2022 the kawasaki mule 4010 is kawasaki s second smallest utv only bigger than the smallest and cheapest model in the mule sx despite being smaller and less powerful than the most popular mule models like the kawasaki mule mx and kawasaki mule pro fxt ranch edition the mule 4010 is still known for its high quality build and

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