

Soft Rough Sets Applied To Multicriteria Group Decision Making

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Interval-Valued Neutrosophic Soft Rough Sets

Rough Sets Zdzisław Pawlak Institute of Theoretical and Applied Informatics, Polish Academy of Sciences, ul. Bałtycka 5, 44 100 Gliwice, Poland University of Information Technology and Management ul. Newelska 6, 01-447 Warsaw, Poland zpw@ii.pw.edu.pl 1.

Relations on FP-Soft Sets Applied to Decision Making Problems

Molodtsov's soft set theory is a newly emerging mathematical tool to handle uncertainty. However, the classical soft sets are not appropriate to deal with imprecise and fuzzy parameters. This paper aims to extend the classical soft sets to hesitant fuzzy soft sets which are combined by the soft sets and hesitant fuzzy sets. Then, the complement, AND , OR and XOR operations are defined.

Some Operations and Properties of Neutrosophic Cubic Soft Set

RELATIONS ON FP-SOFT SETS APPLIED TO DECISION MAKING PROBLEMS Irfan Delli^{1,*} <irfandelli@kilis.edu.tr> Naim Çağman² <naim.cagman@gop.edu.tr> 1Muallim Rıfat Faculty of Education, Kilis 7 Aralık University, 79000 Kilis, Turkey

Soft Rough Sets Applied To

As the hybrid model combining rough sets with soft sets, soft rough sets could be exploited to extend many practical applications based on rough sets or soft sets. The remainder of this paper is organized as follows. Section 2 presents some fundamental concepts in rough set and soft set theories and also some interesting connections between them.

Rough Set and Fuzzy Set Methods Applied to Acoustical ...

Fuzzy logic is a form of many-valued logic in which the truth values of variables may be any real number between 0 and 1 both inclusive. It is employed to handle the concept of partial truth, where the truth value may range between completely true and completely false. By contrast, in Boolean logic, the truth values of variables may only be the integer values 0 or 1.

Soft sets and soft rough sets - ScienceDirect

In computer science, a rough set, first described by Polish computer scientist Zdzisław I. Pawlak, is a formal approximation of a crisp set (i.e., conventional set) in terms of a pair of sets which give the lower and the upper approximation of the original set. In the standard version of rough set theory (Pawlak 1991), the lower- and upper-approximation sets are crisp sets, but in other ...

Certain types of soft coverings based rough sets with ...

Artif Intell Rev (2014) 41:67–80 DOI 10.1007/s10462-011-9298-7 Soft fuzzy rough sets and its application in decision making Bingzhen Sun · Weimin Ma Published online: 22 December 2011

A novel type of soft rough covering and its application to ...

AUTHOR COPY 1688 J. Zhan et al./A new rough set theory: rough soft hemirings imprecise multi-observer data and applied it to decision-making problems. Maji et al. [33] defined and researched ...

Rough set - Wikipedia

In this paper, the basic concepts, operations and characteristics on the rough set theory are introduced firstly, and then the extensions of rough set model, the situation of their applications, some application software and the key problems in applied research for the rough set theory are presented.

An –Soft Set Approach to Rough Sets - IEEE Journals ...

Emad Marei, More on neutrosophic soft rough sets and its modification University of New Mexico More on . neutrosophic soft rough sets . and its modification. Emad Marei . Department of Mathematics, Faculty of Science and Art, Shaqra University, Saudi Arabia. E-mail: via_marei@yahoo.com. Abstract. This paper aims to introduce and discuss anew

A new rough set theory: rough soft hemirings

Hybrid soft set model is an important topic for dealing with uncertainty. By means of soft neighborhoods, soft complementary neighborhoods and soft adhesions, we build five new different types of soft coverings based rough sets and study related properties. The relationships between soft rough sets and soft covering based rough sets are investigated.

RELATIONS ON FP-SOFT SETS APPLIED TO DECISION MAKING PROBLEMS

Since its launching in 1978, the Journal Fuzzy Sets and Systems has been devoted to the international advancement of the theory and application of fuzzy sets and systems. The theory of fuzzy sets now encompasses a well organized corpus of basic notions including (and not restricted to) aggregation operations, a generalized theory of relations, specific measures of information content, a ...

Sets, fuzzy sets and rough sets - Warsaw University of ...

On a novel uncertain soft set model: Z-soft fuzzy rough set model and corresponding decision making methods J Zhan, Mi Ali, N Mehmood Applied Soft Computing 56, 446-457 . 2017

Fuzzy Sets and Systems - Journal - Elsevier

The philosophy of soft sets is founded on the fundamental idea of parameterization, while Pawlak's rough sets put more emphasis on the importance of granular

Soft fuzzy rough sets and its application in decision making

We first defined interval-valued neutrosophic soft rough sets (IvN-soft rough sets for short) which combine interval-valued neutrosophic soft set and rough sets and studied some of its basic properties. This concept is an extension of interval-valued intuitionistic fuzzy soft rough sets (IvIF-soft rough sets).

A survey on rough set theory and its applications ...

Firstly we introduce the soft covering upper and lower approximation operators of soft rough coverings. Then its relationships with well-established types of soft rough coverings are analyzed. Secondly, we define and investigate the measure degree of our novel soft rough covering. With this tool we produce a new class of soft rough sets.

Hesitant Fuzzy Soft Set and Its Applications in ...

ABSTRACTA novel approach to computer assessment of acoustical quality has been made using soft computing methods. Rough set and fuzzy set theories proved to be especially interesting in applications to acoustical assessments. Objective measurement and listening test results were collected in order to provide data for the rough set computations.

Fuzzy logic - Wikipedia

Pythagorean fuzzy soft rough sets and their applications in decision-making Azmat Hussain Department of Mathematics and Statistics, Faculty of Basic and Applied Sciences, International Islamic University Islamabad, Islamabad, Pakistan Correspondence azmat.phdma66@iiu.edu.pk

Pythagorean fuzzy soft rough sets and their applications ...

Some Operations and Properties of Neutrosophic Cubic Soft Set Pramanik S 1 * , Dalapati S 2 , Alam S 2 and Roy TK 2 1 Department of Mathematics, Nandalal Ghosh B.T. College, Panpur, West Bengal, India

Muhammad Irfan Ali - Google Scholar Citations

02/13/14 - In this work, we first define relations on the fuzzy parametrized soft sets and study their properties. We also give a decision ma...

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