Soft Rough Sets Applied To Multicriteria Group Decision Making

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The science of Multi-Criteria Decision analysis[??????????]: Rough sets: A tool for qualitative knowledge discovery *Revelation Now: Episode 12 \"Cleansing The Sanctuary\" with Doug Batchelor* Rough Set Theory (Part-1) │ Amit Kumar Mishra │ SISTec Gandhi Nagar *Basic concepts of Rough Set Theory with Examples*

International Workshop on "Mathematical Research in Fuzzy Sets, Rough Sets and Soft Sets"**Set Approximation, Rough Set Theory,Soft Computing (Lecture 6) #softcomputing rgpv**

unit 5 part 1 Heavy Rain Sounds for Sleeping Black Screen 10 hours - Dark Screen Sleep Music heavy rain Soft Rough Sets Applied To
Soft rough sets which are a hybrid model combining rough sets with soft sets are defined by using soft rough approximation operators. Soft rough sets can be seen as a generalized rough set model based on soft sets. The present paper aims to combine the covering soft set with rough set, which gives rise to the new kind of soft rough sets.

Soft Covering Based Rough Sets and Their Application

Feng, Liu, Leoreanu-Fotea, and Jun (2011) combined soft sets and rough sets, which were applied to multi-criteria group decision-making in Feng (2011). Fatimah, Rosadi, Hakim, and Alcantud (2019 ...

Soft sets and soft rough sets | Request PDF

Soft rough sets are also associated with generalized rough sets based on covering or binary relation. Next, we consider the relationship between soft rough sets and generalized rough sets based on binary relation , , , , , , . Let R ? U × U be a binary relation on U without any additional constraints.

Soft sets and soft rough sets - ScienceDirect

Pythagorean fuzzy soft rough set, and investigate some important properties of soft rough Pythagorean fuzzy set and Pythagorean

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fuzzy soft rough set in detail. Furthermore, classical representations of Pythagorean fuzzy soft rough approximation operators are presented. Then the proposed operators are applied on decision-making problem in which the experts provide their preferences in Pythagorean fuzzy soft rough environment.

Pythagorean fuzzy soft rough sets and their applications ...

The rapid development of these two approaches provides a basis for "soft computing, " initiated by Lotfi A. Zadeh. Soft Computing includes along with rough sets, at least fuzzy logic, neural networks, probabilistic reasoning, belief networks, machine learning, evolutionary computing, and chaos theory. Basic problems in data analysis solved by Rough Set: Characterization of a set of objects in terms of attribute values.

Rough Set Theory | An Introduction - GeeksforGeeks

Soft sets were applied to fuzzy and rough sets, presented the hybrid algorithm namely SFRCM and its application to medical image segmentation. The SFRCM has the advantages, including handling uncertainty by defining lower and upper approximation using parameterization tool, reducing clustering mistakes, fast convergence due to soft set similarity coefficient and effective initialization of centroids using histogram.

Soft fuzzy rough set-based MR brain image segmentation ...

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.

Hesitant Fuzzy Soft Set and Its Applications in ...

, A novel soft rough set: Soft rough hemirings and its multicriteria group decision making, Applied Soft Computing 54 (2017), 393-402. [51] Zhan J.M. , Ali M.I. and Mehmood N. , On a novel uncertain soft set model: Z-soft fuzzy rough set model and corresponding decision making methods, Applied Soft Computing 56 (2017), 446-457. [52]

Hesitant fuzzy compatible rough set and its application in ...

Rough Set Theory (RST) is a technique used in soft computing that enhances the idea of classical sets to deal with incomplete knowledge and provides a mechanism for concept approximation. It uses reducts to isolate key attributes affecting outcomes in decision systems. The paper summarizes two algorithms for reduct calculation.

A Survey of Software Packages Used for Rough Set Analysis

The focus is to publish the highest quality research in application and convergence of the areas of Fuzzy Logic, Neural Networks, Evolutionary Computing, Rough Sets and other similar techniques to address real world complexities. Applied Soft Computing is a rolling publication: articles are published as soon as the editor-in-chief has accepted ...

Applied Soft Computing - Journal - Elsevier

On this soft set, the formal approximation has been applied through rough sets for calculating a positive region to identify the degree of dependency between attributes. In the second phase, weights are assigned to each of the contextual scenarios on the basis of the degree of dependency calculated from the positive region POS A (X) .

Mathematics | Free Full-Text | A Soft-Rough Set Based ...

Feng et al. applied soft set theory to the study of semirings and initiated the notion of soft semirings. Furthermore, based on, Ali et al. introduced some new operations on soft sets and improved the notion of complement of soft set. They proved that certain De Morgan's laws hold in soft set theory.

Intuitionistic Fuzzy Soft Rough Set and Its Application in ...

applications of soft sets in ideal theory of BCK/BCI-algebras [36]. Feng et al.[37] introduced the soft rough set model and proved its properties. Smaran-dache [38] proposed the theory of neutrosophic set as a new mathematical tool for handling problems involving imprecise data. Maji [39] introduced neutrosophic soft

An approach to neutrosophic soft rough set and its properties

Rough set theory initiated by Pawlak and soft set theory initiated by Molodtsov are strong mathematical tools for handling uncertain and vague information. In this study, we bring out some results of soft rough sets (SR-sets) and topological structure of soft rough sets.

Novel concepts of soft rough set topology with ...

The soft fuzzy rough lower and upper approximation operators of any fuzzy subset in the parameter set were defined by the concept of the pseudo fuzzy binary relation (or pseudo fuzzy soft set) established in this paper. Meanwhile, several deformations of the soft fuzzy rough lower and upper approximations are also presented.

Soft fuzzy rough sets and its application in decision ...

The proposed model will select a minimal set of influencing contexts using a weights assign process by Soft-Rough sets. Moreover,

the proposed algorithm has been extensively evaluated using " LDOS-CoMoDa " dataset, and the outcome signifies the accuracy of our approach in handling contextual sparsity by exploiting relevant contextual factors.

Mathematics | Free Full-Text | A Soft-Rough Set Based ...

Rough set theory has been applied to several domains because of its ability to handle imperfect knowledge. Most recent extension of rough set is soft rough set, where parameterized subsets of a universal set are basic building blocks for lower and upper approximations of a subset.

Modified Soft Rough set for Multiclass Classification ...

Other areas of interest that can be applied in today's world will also be accepted, such as learning theory, probability theory, hybrid methods, and rough sets. The applications of soft computing methods/techniques in computer science, engineering, manufacturing, supply chain, logistics, bio-medicine, healthcare, data analysis, and big data analytics are also welcome.