

Soft Rough Sets Applied To Multicriteria Group Decision Making

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Soft Rough Sets Applied To

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

By Theorem 4.2, (R_s, U) is the canonical soft set of the binary relation R on U , and so we can discuss soft rough sets in the corresponding soft approximation space. According to [32], the set $R_s(x)$ of R -related elements of x may be interpreted as a successor neighborhood of x , and R_s is called the successor operator.

Soft sets and soft rough sets - ScienceDirect

Soft set theory is a generalization of fuzzy set theory, that was proposed by Molodtsov in 1999 to deal with uncertainty in a parametric manner. Feng 5 considered the application of soft rough...

Soft rough sets applied to multicriteria group decision making

Rough soft set theory applied to lattices and its applications Article type: Research Article. Authors: Yu, Bin | Li ... In particular, Feng et al. proposed the rough soft sets by combing Pawlak rough sets and soft sets, rough soft sets can be regarded as a collection of rough sets sharing a common Pawlak approximation space.

Rough soft set theory applied to lattices and its ...

Moreover, Feng et al. combined soft sets and rough sets, which were applied to multi-criteria group decision-making in Feng. Fatimah et al. proposed new algorithms for decision-making based on the...

Soft sets and soft rough sets | Request PDF

A soft rough set based multicriteria group decision making scheme is presented, which refines the primary evaluation of the whole expert group and enables us to select the optimal object in a more reliable manner. The proposed scheme is illustrated by a concrete example regarding the house purchase problem.

Soft rough sets applied to multicriteria group decision making

Aktas and Cagman compared soft sets with the related concepts of fuzzy sets, rough set and proved that every fuzzy set, rough set is a soft set. Molodtsov applied this theory to several directions and formulated the notions of soft number, soft derivative and soft integral, etc. The soft set theory has been applied to many different fields with great success.

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

According to Molodtsov, the soft set theory has been successfully applied to many fields such as functions smoothness, game theory, Riemann-integration, theory of measurement and so on. Researches on soft set theory have received much attention in recent years.

A rough set approach to intuitionistic fuzzy soft set ...

The precise and simplified rules can be produced by rough sets, and they can be applied to intelligent controls. Based on the above characteristics, there are three distinctions between rough set theory and other uncertainty theories. Firstly, for the rough set theory, the priori information of data doesn't need to be provided except the data.

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

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 ...

Rough set - Wikipedia

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

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 first author have applied the notion of soft sets by Molodtsov to the theory of BCK/BCI-algebras. Also, Jun et al. have discussed soft set theory which is applied to ideals in d-algebras. In this article, we applied the notion of fuzzy soft sets to the theory of BCK/BCI-algebras.

Fuzzy soft set theory applied to BCK/BCI-algebras ...

Finally, with the help of level soft set, the hesitant fuzzy soft sets are applied to a decision making problem and the effectiveness is proved by a numerical example. Molodtsov's soft set theory is a newly emerging mathematical tool to handle uncertainty.

Hesitant Fuzzy Soft Set and Its Applications in ...

Our approach Soft-Rough Set based CAVRS (SRS-CaVRS) combines rough sets based formal approximation [15] on soft sets based representation of given contextual attributes in Boolean-valued information systems that is able to perform attributes reduction more efficiently to extract the a reduced set of contexts with minimal contextual factors [16] by alleviating contextual sparsity in context-aware video recommender systems.

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

Therefor Pawlak's approach to rough sets can be viewed as a special case of suggested single valued neutrosophic soft approach to rough sets. 5 A decision making problem. In this section, suggested single valued neutrosophic soft rough model is applied in a decision making problem.

Single Valued Neutrosophic Soft Approach to Rough Sets ...

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 ...

The purpose of this study was to highlight the roles and the implementations of hybrid rough set and soft set theories in decision-making especially in parameter reduction process. Rough set and soft set theories are the two powerful mathematical tools that have been successfully proven by many research works as a good parameterization method.

Recent Study on the Application of Hybrid Rough Set and ...

Abstract 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...

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