FEATURE SELECTION WITH INTELLIGENT SYSTEMS

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**DESCRIPTION:** 

The main goal in Data Mining and Pattern Recognition is to extract useful information from

a given set of objects, which are described by a set of features. The values of these features

are the data to be analyzed. Due to several reasons it is desirable to use a small set of

features, which leads to the problem of feature selection. This subtask of the data analysis

process has attracted interest from researchers belonging to various areas, such as statistics,

artificial intelligence, and mathematical programming. Typical application areas are

marketing, process analysis, scientific engineering, among others.

TOPICS OF INTEREST:

1.

Feature selection in general and in particular feature selection using one or a combination

of the following approaches:

> Statistical Techniques

> Neural Networks

> Fuzzy Logic

Rough Sets

> Support Vector Machines

Genetic Algorithms

➤ Ant Colony Systems

Meta Heuristics

2.

Real world applications showing the benefits of Feature Selection