Abstract

This paper presents a new technique to estimate null values from relational database systems. At present, some methods exist to estimate null values from relational database systems. The accuracy of the existing methods is not good enough. We have used an advanced technique for estimating null values in relational database systems. In our paper, we present the technique to generate weighted fuzzy rules from relational database systems for estimating null values using Noble Evolutionary algorithms. The parameters (operators) of the Evolutionary algorithms are adapted via Fuzzy systems. We have fuzzified the attribute values using membership functions shape. The results of the evolutionary algorithms are the weights of the attributes. The different weights of attributes generate a set of fuzzy rules. From this, we have obtained a set of rules. Our proposed techniques have a higher average estimated accuracy rate and are able to estimate the null values in relational database systems.
Performances of Estimating Null Values using Noble Evolutionary Algorithm (NEAs) by Generating Weighted Fuzzy Rules

Reference

- M.M.A Hashem, Keigo Watanabe “evolutionary Computations”, Khulna University of Engineering and Technology, Bangladesh

Index Terms

Computer Science
Databases

Key words
Fuzzy System
Membership Functions
Noble
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Null values
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