

FUZZY GMDH-TYPE METHOD AND ITS APPLICATION IN BOTTLE-NECK DIAGNOSIS OF REGIONAL ECONOMIC SYSTEM

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ABSTRACT

The purpose of this paper is to recognize Bottle-neck Diagnosis in Regional Economic System. This paper presents a new self-organizing data mining method applied to Bottle-neck Diagnosis in Regional Economic System. The result shows that the new method is more effective in diagnosis compared with GMDH method. Its algorithm is relatively simple. It relies on the expert's destination of the inputs and outputs from lots of data instead of the models. The comparative results between new method and the GMDH method show that the accuracy of this new method is similar as GMDH method, however the additional precondition can be found. This is the prominent characteristic of the new method. Thus, its application in diagnosis in the fields of Management Science is more promising.

KEYWORDS: *Fuzzy GMDH-Type Method, Bottle-Neck Diagnosis, Self-Organizing Data Mining, Regional Economic System, GMDH-Type Neural Networks Algorithm*

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