Operation Research and Decision Making

The real estate enterprise performance evaluation model study empirical research on the real estate enterprise statistics in China: 2009-2013

Shubing Qiu

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Based on our real estate business development, for the shortcomings of traditional performance evaluation methods, combined with hierarchical fuzzy neural network evaluation method, using BP neural network training corporate financial indicators, and fuzzy neural network training non-financial indicators, and then to build a fuzzy neural network evaluation model integratedly, so the value of enterprise performance evaluation results can be calculated. The results show: the model is of high accuracy, which can more accurately reflect the performance of the real estate development business.

Keywords: fuzzy neural network, BP neural network, real estate business, business performance

Reliability research on dynamic logistics alliance based on GO methodology

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In order to calculate the reliability accurately and dig out the dominant influencing factors of dynamic logistics alliance, GO methodology is applied in reliability research on dynamic logistics alliance. Through building the structure model of dynamic logistics alliance, failure factor of each subsystem is diagnosed. With the GO methodology, the dynamic logistics alliance is transformed into the GO chart, the system reliability is calculated in detail, its failure mode diagnosis and importance calculation are quantitatively studied and then a case of automobile dynamic logistics alliance is employed to verify GO methodology for effectiveness and validity.

Keywords: dynamic logistics alliance, system reliability, GO methodology, influencing factor, failure mode

Multi-feature fusion based spatial pyramid deep neural networks image classification

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The scalable and efficient multi-class classification algorithm is now a well-known hard problem. Traditional methods of computer vision and machine learning cannot match human performance on images classification tasks. This paper proposes a novel semi-supervised classifier called Spatial Pyramid Deep Neural Networks (SPDNN). SPDNN utilizes a new deep architecture to integrate the ability of neural networks and spatial pyramid model because deep neural networks do not considerable the spatial information. Feature fusion has been more and more important for image and video retrieval, indexing and annotation because of the lack of single feature. We use multiple feature fusion over any single feature instead of pixels of images. The features include color feature, shape feature and texture feature. The performance of experiment shows that the algorithm improved the state-of-the-art image classification.

Keywords: multi-feature fusion, spatial pyramid deep neural networks, image classification

Difference processing on financial accounting of institutions and enterprises

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In modern society, both enterprises and institutions would face a common problem, which was how the accounting staff handle the finances. Due to the different properties, this two types of units could lead to the difference how to handle this units. This paper was to research and analyze problems from this aspect, and based on the analysis and research, and to compare the specific difference of institutions and enterprises, then put forward the corresponding point of view for research better understanding.

Keywords: Institutions, Enterprises, Accounting Staff, Financial Processes, Difference