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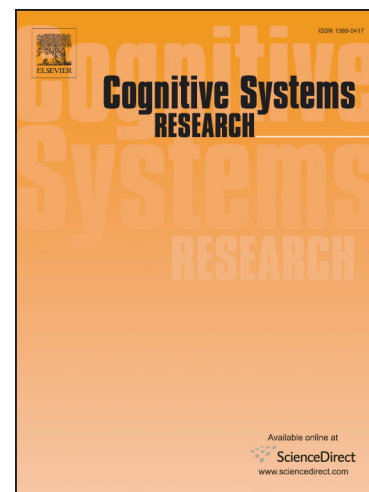
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TOPSIS Time Variant Decision Fusion Model Evaluation for Internet of Public Service Things

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Abstract. To improve the effectiveness of the performance analysis on the development and supply of public cultural service policies in urban communities, the collaborative data fusion recommendation algorithm of user satisfaction and feature approximation is adopted in this paper to establish the development and supply performance research algorithm of the public cultural service policies in urban communities from the horizon of public satisfaction. First, research is made according to the development model of public cultural service policies in urban communities from the horizon of public satisfaction to establish the performance valuation model. Two, the time-varying weight method is adopted to improve the standard TOPSIS fusion, enhance the time-varying attribute of TOPSIS decision fusion and realize the valid attribute fusion of the user similarity data. Third, the effectiveness of the proposed algorithm has been verified by making the experimental comparison according to the test case.

Keywords: Satisfaction, Public cultural service, Supply performance, TOPSIS recommendation, Similarity

1 Introduction

Since 1990s, developed countries such as the USA and the UK had applied the customer satisfaction strategies of quality management in their governmental public management. The core purpose of the customer satisfaction strategies is customer-oriented; instead of managing the material resources, the implementation of such strategies has increased the pressure of public organizations in improving performance so that they can establish a correct target invisibly, namely to improve the customer satisfaction. In 1993, the U.S federal government formulated the public cultural service standards for customers in line with the concept of “customer foremost”, which had caused concern of the public sectors for customer satisfaction and formed a brand-new management tool and idea during the public administration [1-5].

It is clearly stated in the report on the work of the 18th CPC National Congress that the government shall accelerate the reform of administrative system and strive

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