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# Research on Internet Information Mining Based on Agent Algorithm

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**Abstract:** With the rapid development of information technology, especially network technology, people's ability to collect, store and transmit data are increasing. The data have exploded in an explosive manner. In sharp contrast, the ability to make valuable data for decision making is very poor. In this paper, data mining is the most basic problem. In order to overcome the shortcomings of the traditional clustering algorithm for k-means clustering, it is difficult to determine the initial clustering center and the k-means algorithm is improved. When determining the initial K-, the convergence factor is improved and the global optimum is achieved, so as to realize the determination of clustering center. By using improved k-means algorithm to approximate the criminal data, the validity of this method is verified.

**Keywords:** Agent algorithm, intelligence, data mining

## 1. INTRODUCTION

With over 50 years' development, computer and information technology has brought human society tremendous changes and impacts [1]. In the three elements that dominate human society (energy, materials and information), information increasingly shows its importance and dominance. Faced with the current inflated data volume, people are increasingly feeling the pressure brought by information explosio, infiltration of information space and over-data [2]. Therefore, how to analyze and process data information to obtain the necessary knowledge quickly and effectively has become an important research topic in computer and information technology[3]. The end of the 20th century, data mining technology came into being. With more than a decade of development, data mining technology has evolved from dealing with simple single-table data to handling the correlation between samples[4]. The best known of the many features of data mining technology are the "relationship between

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