

摘 要

自發明計算機開始，人工智慧的研究範圍就不斷擴大，隨之衍生出來的技術與知識更是不斷的創新，然而這麼多的技術需要妥善的整合才能發揮最好的效果，如同大腦的運作，腦細胞間必須各自分工彼此合作，才能具有學習、聯想、思維、判斷與決策等等複雜的功能。

透過人工智慧技術的截長補短，使其產生較為理想的決策結果，因此本文提出的模式是整合性的架構，重點在整合類神經網路與資料採礦等技術，並應用於設計金融最佳化決策代理系統。

關鍵字：金融實驗、專家系統、資料採礦、最佳化、代理人系統

Abstract

Since the Computer invented, the research field of artificial intelligence is continually expanding and the innovation technology and knowledge of computer keeping development. However, the technology must be integer to produce the proper result. Operation like the brain, must cooperate for complicated capability of study, association, thinking, and decision etc.

Through the complementation of the artificial intelligence technology, batter decision result is made. So, in this study the integration framework, it suggests that technology, for application to design the financial optimization decision agent System. Should be integrated by using neural network and data system.

Key word : Financial Experiment, Expert System, Data Mining, Optimization, Agent System