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انظمة التحكم في استهلاك الطاقة باستخدام الذكاء الاصطناعي

Abstract: *This study aims to demonstrate the importance of artificial intelligence and the strategies used in order to improve efficiency and make better decisions in finding solutions to complex problems in various economic fields and social issues and improving political decisions to achieve sustainability. The study also shed light on the United Arab Emirates due to its leadership in all different fields and knowing the most important strategies followed by the state to achieve the technological and economic development that the government sought, as it relied on artificial intelligence, comprehensive digital transformation, and the launch of the “Artificial Intelligence”.*
Keywords: *Artificial Intelligence, strategy, United Arab Emirates. JEL Classification Codes: Q01 ، C63*

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الخلاصة : تهدف هذه الدراسة إلى إبراز أهمية الذكاء الاصطناعي والاستراتيجيات المستخدمة لتحسين الكفاءة واتخاذ قرارات أفضل في إيجاد حلول للمشاكل المعقدة في مختلف المجالات الاقتصادية والقضايا الاجتماعية وتحسين القرارات السياسية لتحقيق الاستدامة، كما تسلط الدراسة الضوء على دولة الإمارات العربية المتحدة بسبب ريادتها في كافة المجالات المختلفة. ومعرفة أهم الاستراتيجيات التي اتبعتها الدولة لتحقيق التطور التكنولوجي والاقتصادي الذي سعت إليه الحكومة، حيث اعتمدت على الذكاء الاصطناعي والتحول الرقمي الشامل، وإطلاق استراتيجية "الذكاء الاصطناعي".
الكلمات المفتاحية : الذكاء الاصطناعي، الاستراتيجية، الإمارات العربية المتحدة. رموز تصنيف C63 ، JEL: Q01

المقدمةIntroduction

It is claimed that artificial intelligence is playing an increasing role in the research of management science and operational research areas. Intelligence is commonly considered as the ability to collect knowledge and reason about knowledge to solve complex problems. In the near Future intelligent machines will replace human capabilities in many areas.

Artificial intelligence is the study and developments of intelligent machines and software that can reason, learn, gather knowledge, communicate, manipulate and perceive the objects. John McCarthy coined the term in 1956 as branch of computer science concerned with making computers behave like humans. It is the study of the computation that makes it possible to perceive reason and act.

النتائج والمناقشةResults and discussion

The use of artificial intelligence is investigated as the basis to mitigate the problems of accounting databases. The following are some difficulties with existing accounting database systems. The needs of decision makers are not met by accounting information. Humans do not understand or cannot process the computerized accounting databases. Systems are not easy to use. There is focus on the numeric data.

Integrating intelligent systems with accounting databases can assist (either with the decision maker or independent of decision maker) in the investigation of large volumes of data with or without direct participation of the decision maker. Thus, the systems can analyze the data and assist the users understanding or interpreting transactions to determine what accounting events are captured by the system. With the artificial intelligence we store and retrieve knowledge in natural language.

There are some artificial intelligence tools or techniques that help in the broader understanding of events captured by the accounting system. There is more emphasis on symbolic or text data rather than just numeric data to capture context. The artificial intelligence and expert system build intelligence into the database to assist users. Without user’s direct participation such models help the users by sorting through large quantities of data. Such models also assist the decision makers under time constraints; suggest alternatives in the searching and evaluation of data.

الخاتمةConclusion

The field of artificial intelligence gives the ability to the machines to think analytically, using concepts. Tremendous contribution to the various areas has been made by the Artificial Intelligence techniques from the last 2 decades. Artificial Intelligence will continue to play an increasingly important role in the various fields.

This paper is based on the concept of artificial intelligence, areas of artificial intelligence and the artificial intelligence techniques used in the field of Power System Stabilizers (PSS) to maintain system stability and damping of oscillation and provide high-quality performance, in the Network Intrusion Detection to protect the network from intruders, in the medical area in the field of medicine, for medical image classification, in the accounting databases, and described how these AI techniques are used in computer games to solve the common problems and to provide features to the games so as to have fun. There is bright future in the analysis of Network Intrusion Detection and there is also definite future in the area of Power System Stabilizers.

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