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Artificial Intelligence Based Electrical Machines

Artificial-Intelligence-Based Electrical Machines and Drives. Artificial-Intelligence-Based Electrical Machines and Drives. Application of Fuzzy, Neural, Fuzzy-Neural, and Genetic-Algorithm-Based Techniques Peter Vas. Professor of Electrical Engineering University of Aberdeen. OXFORD.

Artificial-Intelligence-Based Electrical Machines and Drives

Roughly half of all electricity generated is consumed in motors, and recent efforts to apply artificial intelligence (AI) to improving electric motors are receiving attention worldwide. At present two industrial drives incorporate some form of AI. This book is the first comprehensive discussion of AI applications to electrical machines and drives.

Artificial-Intelligence-Based Electrical Machines and ...

Artificial-Intelligence-Based Electrical Machines and Drives. Application of Fuzzy, Neural, Fuzzy-neural, and Genetic-Algorithm-based Techniques. Peter Vas. Monographs in Electrical and Electronic Engineering. Description. Roughly half of all electricity generated is consumed in motors, and recent efforts to apply artificial intelligence (AI) to improving electric motors are receiving attention worldwide.

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Artificial-Intelligence-Based Electrical Machines And ...

Machine learning and electrical engineering professionals leverage AI to build and optimize systems and also provide AI technology with new data inputs for interpretation. For example, engineers build systems of connected sensors and cameras that ensure that an autonomous vehicle's AI can "see" the environment.

Applications of AI and Machine Learning in Electrical and ...

Artificial-Intelligence-based Electrical Machines and Drives: Application of Fuzzy, Neural, Fuzzy-neural, and Genetic-algorithm-based Techniques: 45 ... in Electrical and Electronic Engineering) Hardcover - 17 May 1999

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Artificial Intelligence in Electrical Engineering In power systems, there are quite a lot of areas where an expert system is necessary. This expert system is the one which can perform tasks like decision making, solving problems by reasoning, archiving knowledge. It is because sometimes, a lot of data has to be processed in a very short duration.

Artificial Intelligence Techniques In Electrical and ...

This is the first comprehensive book which discusses numerous AI applications to electrical machines and drives. The drives considered are: d.c. drives, induction motor drives, synchronous motor drives, and switched reluctance motor drives. Sensorless drives are also considered.

Artificial-intelligence-based electrical machines and ...

Researchers have achieved a breakthrough in the development of artificial intelligence by using light instead of electricity to perform computations.

Machines can learn unsupervised 'at speed of light' after ...

Synopsis. Recently artificial-intelligence-based techniques (fuzzy logic, neural networks, fuzzy-neural networks, genetic algorithms, etc) have received increased attention world-wide and at present two industrial drives incorporate some form of artificial intelligence. This is the first comprehensive book which discusses numerous AI applications to electrical machines and drives.

Artificial-Intelligence-based Electrical Machines and ...

Application of AI tools in fault diagnosis of electrical machines and drives - An overview Article (PDF Available) in IEEE Transactions on Energy Conversion 18(2):245 - 251 · July 2003 with 1,634 ...

Application of AI tools in fault diagnosis of electrical ...

This paper presents an artificial intelligence practical application for the detection, and diagnosis of me-chanical and electrical faults in three phase induction motors. This study proposes a methodology to detect mechanical and electrical faults using only one accelerometer sensor for measuring vibration, under conditions

Fault Detection in Induction Motors Based on Artificial ...

Researchers soon realized that the performance of induction motor drives can be enhanced by adopting artificial-intelligence-based methods. Since the 1990s, AI-based induction motor drives have...

(PDF) Artificial Intelligence Based Simulation of ...

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