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Artificial-Intelligence-Based Electrical Machines and ...
Artificial-Intelligence-Based Electrical Machines and Drives: Application of Fuzzy, Neural, Fuzzy-Neural, and Genetic-Algorithm-Based Techniques. 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.

Journal of Electrical and Computer Engineering - Hindawi
Artificial-Intelligence-Based Electrical Machines and Drives: Application of Fuzzy, Neural, Fuzzy-neural, and Genetic-Algorithm-based Techniques (Monographs in Electrical and Electronic Engineering)

Artificial Intelligence Based Electronic Control of ...
All Artificial intelligence (AI) is the intelligence of machines and the branch of computer science that aims to create it. Textbooks define the field as "the study and design of intelligent agents," where an intelligent agent is a system that perceives its environment

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 ...

Artificial-intelligence-based electrical machines and ...
Artificial-Intelligence-based Electrical Machines and Drives: Application of Fuzzy, Neural, Fuzzy-neural, and Genetic-algorithm-based Techniques. 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,...

General Electric Builds an AI Workforce - MIT Technology ...
Artificial-intelligence-based electrical machines and drives application of fuzzy neural fuzzy-neural and genetic-algorithm-based techniques Monographs in electrical and electronic engineering Material

Artificial-Intelligence-Based Electrical Machines and Drives
Abstract. The article is focused on the applied artificial intelligence in the diagnostics of electric machines. Attention is paid to some developmental trends of artificial intelligence, for example, neural networks, fuzzy systems, genetic algorithms and expert systems. Having in mind the intended future usage in electric machine diagnostics...

Artificial-Intelligence-Based Electrical Machines and ...
intelligence techniques have been developed and applied in the monitoring processes of faults, among them, the Arti?cial Neural Networks (ANNs), Fuzzy Logic (FL) and Support Vector Machines (SVM) [5, 6, 7, 8]. Regarding the neural networks, it is important to note that the ANNs can be considered as “black boxes”;

Artificial-intelligence-based electrical machines and ...
Artificial Intelligence Based Electronic Control of Switched Reluctance Motors TEREC Rare?1, CHINDRI? Virgil1, SZABÓ Loránd1, M?RGINEAN C?lin2 1 Technical University of Cluj Napoca, Romania, Department of Electrical Machines and Marketing, Faculty of Electrical Engineering,

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[PDF] Artificial-Intelligence-Based Electrical Machines ...
There is Nothing called as an electrical and electronics engineer. For becoming an electrical engineer, compete in some competitive exam. For becoming an electronics engineer. Compete in some competitive exam o Gain skills relating to low level computer programming languages to become a well paid electronics engineer in private sector.

Application of Artificial Intelligence in Electrical ...
The artificial intelligence appears as an interesting alternative to control the asynchronous motor and to satisfy the desired requirements. The base element, in a fuzzy command is the fuzzy logic. The fuzzy logic belongs to the family of methods of artificial intelligence.

Artificial Intelligence in Diagnostics of Electric Machines
General Electric Builds an AI Workforce ... to the future of a company working to inject artificial intelligence into its machines and industrial processes. ... and helps build physics-based ...

Artificial Intelligence Based Electrical Machines
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 Drives
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