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

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Artificial-Intelligence-Based Electrical Machines and ...

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.

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Artificial Intelligence Techniques In Electrical 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 ...

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This text discusses numerous artificial intelligence applications to electrical machines and drives. The drives considered are: DC drives; induction motor drives; synchronous motor drives; switched reluctance motor drives; and sensorless drives.

Artificial-intelligence-based electrical machines and ...

Artificial intelligence, or AI, is a computer system which learns from the experiences it encounters. It can adjust on its own to new inputs, allowing it to perform tasks in a way that is similar to what a human would do. How we have defined AI over the years has changed, as have the tasks we've had these machines complete.

16 Artificial Intelligence Pros and Cons – Vittana.org

The rapid development of microprocessors, digital signal processors, and artificial intelligent techniques, and the advancement in control and estimation techniques, have also enabled motors to be controlled in a much simpler way than in the past. This article will review various control methods for a number of motors.

Intelligent Control of Motors - EOLSS

Artificial intelligence (AI), sometimes called machine intelligence, is intelligence demonstrated by machines, unlike the natural intelligence displayed by humans and animals.

Artificial intelligence - Wikipedia

With every car manufacturer and their mother racing to develop artificial intelligence and self-driving technologies, there are also a slew of tech companies and startups with the same purpose.. Though many believe personal, autonomous vehicles are the future, there are multiple ways in which AI and machine learning are being implemented in how vehicles are built and how they operate on the road.

Artificial Intelligence In Cars: 10 Examples Of AI ...

Deep learning is a class of machine learning algorithms that (pp199–200) uses multiple layers to progressively extract higher-level features from the raw input. For example, in image processing, lower layers may identify edges, while higher layers may identify the concepts relevant to a human such as digits or letters or faces.. Overview. Most modern deep learning models are based on ...