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Artificial Intelligence Based Electrical Machines

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 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.

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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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 ...

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neural, and Genetic-algorithm-based Techniques. Peter Vas. OUP Oxford, Jan 28, 1999- Computers-625...

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 Professor of Electrical Engineering University of Aberdeen OXFORD UNIVERSITY PRESS

Artificial-Intelligence-Based Electrical Machines and Drives

A paper describing the research, published today in the scientific journal Applied Physics Reviews, reveals that their photon-based TPU was able to perform between 2-3 orders of magnitude higher than an electric TPU Researchers have achieved a breakthrough in the development of artificial ...

Scientists: Machines can learn unsupervised at 'lightspeed ...

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. It presents a detailed and unified mathematical and physical treatment, and contains many worked examples, presents numerous simulation results and shows a large number of experimental results obtained on different DSP systems.

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Global power and industrial automation company Schneider Electric developed a predictive analytics solution based on machine learning and IoT. Energy producers use it to monitor remote equipment -- saving maintenance costs, optimizing production, and increasing safety for workers and the environment. Learn about AI at Schneider

Microsoft Artificial Intelligence

Researchers at Argonne National Laboratory are working on optimization models that use machine learning, a form of artificial intelligence, to simulate the electric system and the severity of various problems. In a region with 1,000 electric power assets, an outage of just three assets can produce nearly a billion scenarios of potential failure.

Artificial intelligence can make the U.S. electric grid ...

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 1,615 ...

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

Artificial-intelligence-based electrical machines and drives : application of fuzzy, neural, fuzzy-neural, and genetic-algorithm-based techniques.

Artificial-intelligence-based electrical machines and ...

Machine learning performed by neural networks is a popular approach to developing artificial intelligence, as researchers aim to replicate brain functionalities for a variety of applications. A ...

Photon-based processing units enable more complex machine ...

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

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motor drives, and switched reluctance motor drives. Sensorless drives are also considered.

Artificial-intelligence-based electrical machines and ...

The report "Artificial Intelligence in Manufacturing Market by Offering (Hardware, Software, and Services), Technology (Machine Learning, Computer Vision, Context-Aware Computing, and NLP ...

Artificial Intelligence in Manufacturing Market worth \$16 ...

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These design techniques are based on artificial intelligence techniques which do not require any mathematical modelling. All these techniques work well under normal operating conditions. ... P. VasArtificial-Intelligence-Based Electrical Machines and Drives. Oxford University Press, New York, USA (1999) Google Scholar.

Artificial intelligence-based speed control of DTC ...

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 ...

Through artificial intelligence, a science discipline that prompts machines to mimic human actions, officials hope to study and address 21st century issues such as rising seas, aging populations,...

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