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motors, and recent efforts to apply artificial intelligence (AI) to improving electric motors are receiving attention worldwide.

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artificial intelligence by using light instead of electricity to perform computations.

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OUP Oxford, Jan 28, 1999- Computers-  
625...

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A paper describing the research,  
published today in the scientific journal

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Applied Physics Reviews, reveals that  
their photon-based TPU was able to  
perform between 2-3 orders of  
magnitude higher than an electric TPU  
Fuzzy Neural And  
Researchers have achieved a  
breakthrough in the development of  
artificial ...

**Scientists: Machines can learn**

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## **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

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be processed in a very short duration.

## Application Of Fuzzy Neural Artificial Intelligence Techniques In Electrical and ...

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presents numerous simulation results  
and shows a large number of  
experimental results obtained on  
different DSP systems.

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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

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## **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

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scenarios of potential failure.

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**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 ...

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## **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 ...

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

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

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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

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1990s, AI-based induction motor drives have...

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such as rising seas, aging populations,...

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