

Are edge computing technologies enhancing power system management?

Various applications discussed demonstrate that edge computing has become a crucial technology across various fields. This paper also explores a wide range of power applications that utilize edge computing technologies, effectively demonstrating how these technologies are enhancing power system management.

What access technologies are used to connect edge devices and edge servers?

Different access technologies, including cellular wireless networks and fiber-wireless access networks, can be used to connect edge devices and edge servers. When edge devices are positioned at the wireless access point, they can directly access edge servers through the radio channels.

How can edge computing improve power system efficiency?

Implementing automated control mechanisms, utilizing advanced algorithms, and deploying best-fit edge computing architectures to facilitate the operation of edge devices at the grid edge will certainly be a focus of research to enhance edge computing applicability and efficiency in power system applications.

6. Conclusions  
What are the benefits of edge computing?

Power systems have become one of the areas that benefit significantly from edge computing. Power systems are complex, hierarchical physical networks that generate, transmit, and distribute electricity to consumers, carrying massive amounts of information.

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This paper introduces the advent and capabilities of edge computing, reviews its state-of-the-art architectural advancements, and explores its communication techniques.

Recent advancements in network-connected devices have led to a rapid increase in the deployment of smart devices and enhanced grid connectivity, resulting in a surge in data generation ...

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In order to overcome the problem of network congestion in the traditional cloud computing mode of power system, the author introduces edge computing technology on the basis of ...

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Simply put, edge computing is a distributed IT framework that moves both computing and storage closer to the sources of data, such as connected devices. It removes the requirement for raw ...

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