Digital Twin of Relay Protection

The digital twin concept has been taken a step further with the development of a cloud-based digital twin of protection devices. This article discusses benefits of this technology when applied in the relay ...

Based on the characteristics of digital twin and the actual application requirements of relay protection, this paper defines four characteristics of relay protection mirror operation based on digital twin: ...

Simulating functional performance in a computer - a digital twin - delivers benefits that include reduced costs, increased reliability, and better efficiency. Two of the major application areas ...

By creating a digital twin of the relay protection system, engineers can simulate and predict the behavior of the system under various fault conditions, enabling proactive decision-making ...

When these two digital twins can interoperate, the highly specialized branch of the electrotechnical community, the protection of the power systems, sees the possibility to perform virtual...

Therefore, referring to the characteristics of digital twin, and combining with the practical application requirements in relay protection, this paper proposes the concept and...

Recently introduced Digital twin technology is based on the concept of a virtual device that can mimic an actual physical device to its greatest degree. Virtual

From the characteristics of digital twin, combined with the practical application requirements in the field of relay protection, this paper proposes the concept of relay protection ...

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Abstract: The digitalization of the electrotechnical community brings to the natural development of digital twin replicas for various devices. In the power system protection field, digital twins for protection ...

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