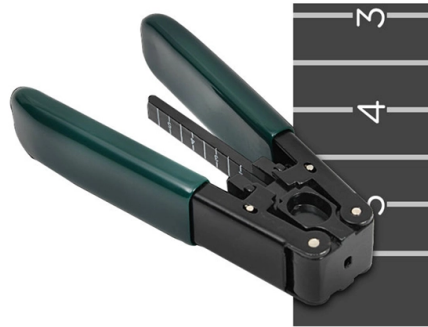


Energy intelligence for communication sites used in operator backbone networks



Overview

It aims to bring together interdisciplinary contributions that demonstrate how AI techniques—such as machine learning, deep learning, and reinforcement learning—can enhance energy efficiency across various layers of modern communication networks, including 5G, IoT, satellite . It aims to bring together interdisciplinary contributions that demonstrate how AI techniques—such as machine learning, deep learning, and reinforcement learning—can enhance energy efficiency across various layers of modern communication networks, including 5G, IoT, satellite . The new Site Energy Orchestration solution from Ericsson acts as an intelligent bridge between the radio access network (RAN) and power grids, optimizing operations to boost energy cost savings, reduce carbon footprint and open new revenue streams. Recent energy crises including those caused by. AI-driven solutions offer real-time adaptability, dynamic control, and predictive capabilities, enabling operators to achieve energy savings of up to 20% while maintaining seamless connectivity. The Open Radio Access Network (Open RAN) is an emerging idea — transforming the traditional Radio Access Networks (RAN) that are monolithic and inflexible into more flexible and innovative. There are many different aspects to this work, ranging from hardware modernization and new software features to network energy. New technologies are dramatically improving the energy efficiency of mobile networks, while reducing their greenhouse gas emissions. In Europe, for example, mobile network.

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