

Title: Self-organizing network base station energy management system

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ESM takes advantage of Nokia's centralized self-organizing networks platform (cSON) by combining its energy efficiency features with the in-built capabilities in a base station.

In this paper, we extend our framework for integrated self-organizing networks by the energy saving management self-organizing network use case.

A multi-BS cooperation self-optimising sleep strategy for 5G BSs that consists of an initial user association stage based on multi-BS cooperation (MBSC) and a self-optimising ...

Case studies demonstrate that the proposed model effectively integrates the characteristics of electrical components and data flow, enhancing energy efficiency while ...

Like most network management process, energy saving cannot be considered in isolation from other network management issues. Energy saved in one base station will have ...

Newly added base stations should be self-configured in line with a "plug-and-play" paradigm while all operational base stations will regularly self-optimize parameters and algorithmic behavior in ...

Due to the rising concerns of energy consumption in wireless networks, base station (BS) sleeping strategies were introduced to save energy in low traffic scenarios.

Aiming at the problem of mobile data traffic surge in 5G networks, this paper proposes an effective solution combining massive multiple-input multiple-output techniques ...

Self-organising networks (SON) have become pivotal in efficiently managing next-generation wireless networks. With the rapid expansion and complexity of 5G networks, ...

We describe self-organizing network (SON) concepts and architectures and their potential to play a central role in 5G deployment and next-generation networks. Our focus is ...



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