Self-organizing network base station energy management system

Overview

What is a self-organizing network?

A self-organizing network (SON) is an automated technology which is designed to help the management of mobile networks. SON enables network self-configuration and self-optimization. SON is actually a umbrella concept, covering different techniques which provide different SON solutions. SON is only specified at the concept level.

Do base station sleeping strategies save energy in dense cellular networks?

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. In this paper we analyse a weighted trade-off between energy consumption and user-perceived performance in dense cellular networks.

What is threshold-based base station sleep strategy?

Threshold-based base station sleep strategy is a common base station management method in wireless communication networks, which adjusts the operating state of the base station to save energy and improve resource utilization by dynamically setting appropriate thresholds.

What are the standardized energy-saving metrics for a base station?

(1) Energy-saving reward: after choosing a shallower sleep strategy for a base station, the system may save more energy if a deeper sleep mode can be chosen, and in this paper, the standardized energy-saving metrics are defined as (18) R i e = E S M = 0 E S M = i E S M = 0 E S M = 3

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Cell Load-Aware Energy Saving Management ...

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

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Nokia Reduce base station energy consumption with ...

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.

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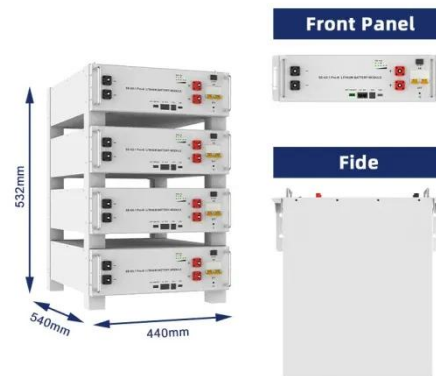## Energy-saving control strategy for ultra-dense network base stations

A base station control algorithm based on Multi-Agent Proximity Policy Optimization (MAPPO) is designed. In the constructed 5G UDN model, each base station is considered as ...

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Self-Organising Networks (SON)

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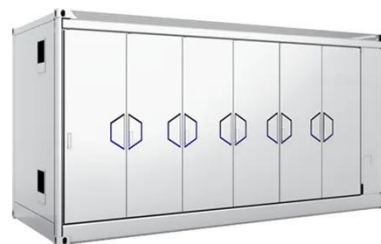## Self-organizing Energy-Saving Mechanism with Base ...

With respect to ES of base stations in radio wireless network, 3GPP standard have introduced a conception of energy conservation management in self-organizing networks (SON) [2][3].

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A self-organizing base station sleeping and user association ...

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. In this ...

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LTE SON: Self-Organizing Networks Explained

Explore LTE Self-Organizing Networks

(SON), a key feature for simplified LTE network installation, optimization, and maintenance. Learn about self-configuration, optimization, and ...

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Exploring power system flexibility regulation potential based ...

5G base stations (BSs) are potential flexible resources for power systems due to their dynamic adjustable power consumption. However, the ever-increasing energy ...

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Self-Organizing Networks (SON) in 3GPP Long Term ...

As every mobile network, LTE (Long Term Evolution) system also needs to be managed. Since LTE is an evolvement of UMTS, the management should also evolve from ...
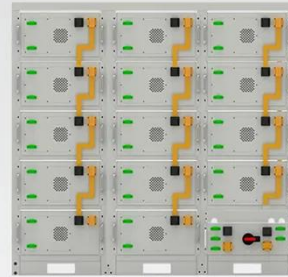
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What is SON, and how does it contribute to 5G network ...

SON stands for Self-Organizing Network.

It's a network management technology used in telecommunication networks, particularly in cellular networks like 4G LTE and 5G, to ...

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Battery String-S224

• 1C Charge/Discharge
• Easy configuration and maintenance
• Power supply can be single battery string or parallel battery strings

A self-organizing base station sleeping and ...

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Cell Load-Aware Energy Saving Management in Self ...

Abstract--Self-organizing networks are considered to be the next generation technology for network management

and, there-fore, also treated as one possible way to ...

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Cell Load-Aware Energy Saving Management in Self-Organizing Networks

Self-organizing networks are considered to be the next generation technology for network management and, therefore, also treated as one possible way to tackle economical ...

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Implementation of Self-Organizing Network (SON) on ...

Implementation of Self-Organizing Network (SON) on Cellular Technology based on Big Data Network Analytics Muhammad Firdaus, Raditya Muhammad, and Rifqy Hakimi ...

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SELF-ORGANIZING NETWORKS SELF-ORGANIZING ...

If professional advice or other expert assistance is required, the services of a competent professional should be sought. Library of Congress Cataloging-in-Publication Data ...

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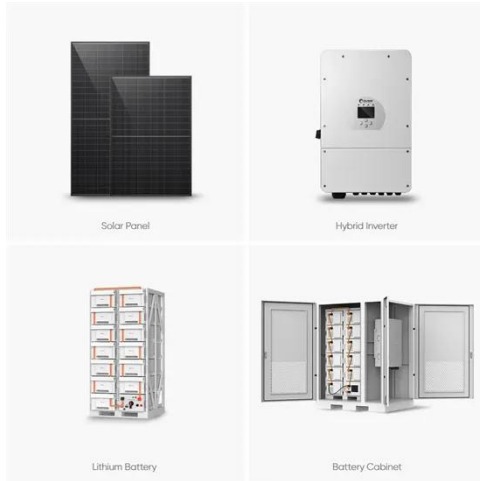## Cell Load-Aware Energy Saving Management in Self-Organizing Networks

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

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Discover how a Self-Organizing Network uses AI to self-configure, optimize, and

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Self-Organizing Networks for 5G and Beyond: ...

Abstract and Figures We describe self-organizing network (SON) concepts and architectures and their potential to play a central role ...

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