



Foreign communication base station energy methods

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 with Ultra-Dense Network (UDN) and focuses on solving the resulting challenge of increased energy consumption. Through chi-square test, Pearson correlation analysis, variance analysis and other machine learning methods, the appropriate modeling index is selected to reduce the dimension of the data, and then GBRT algorithm is used to establish the energy consumption model of the equipment with and without Base Stations (BSs) sleeping strategy is an efficient way to obtain the energy efficiency of cellular networks. To meet the increasing demand of high-data-rate for wireless applications, small cell BSs provide. Modeling and aggregated control of large-scale 5G base stations Notably, the power Energy storage systems can utilize renewable energy sources such as solar power for charging and release stored energy during peak demand periods, improving energy efficiency. Even on less sunny days, storage systems ensure uninterrupted base station operation while minimizing dependence on Energy-saving control strategy for ultra-dense network base

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 Trade-Off Between Renewable Energy Utilizing and In this paper, we design an electric-cellular collaborative network (ECCN) and formulate a joint optimization problem to minimize electric supply and QoS degradation costs, subjecting to Multi-objective cooperative optimization of communication base To achieve "carbon peaking" and "carbon neutralization", access to large-scale 5G communication base stations brings new challenges to the optimal operation of new power The Energy Saving Measurement System and Method of Main The Definition of Energy Saving MeasurementIntroduction to The Model Usage AlgorithmThe Overview of GBRT AlgorithmNew Energy Saving FormulaThere are two parts in the energy saving calculation system and method of the main base station communication equipment. The first step is to select the appropriate modeling indexes to reduce index dimension based on the above algorithm from more than 100 indicators of network management through the chi-square test, Pearson correlation analysis andSee more on link.springer .b_ans .b_mrs{width:648px;contain-intrinsic-size:648px 29 6px;display:flex;flex-direction:column;align-items:flex-start;gap:var(--smtc-gap-between-content-medium);align-self:stretch;padding:var(--smtc-gap-between-content-medium) 0}.b_ans #b_mrs_DynamicMRS h2{display:-webkit-box;-webkit-box-orient:vertical;-webkit-line-clamp:1;line-clamp:1;align-self:stretch;overflow:hidden;color:var(--smtc-foreground-content-neutral-primary);text-overflow:ellipsis;font:var(--bing-smtc-text-global-subtitle2-strong)}.b_ans #b_mrs_DynamicMRS h2 strong{font:var(--bing-smtc-text-global-subtitle2-strong)}#b_results #b_mrs_DynamicMRS .b_vList li{width:320px!important;padding-bottom:0;display:inline-block}#b_mrs_DynamicMRS .b_vList li:not(:nth-last-child(1)):not(:nth-last-child(2)){margin-bottom:var(--smtc-gap-between-content-x-small)}#b_mrs_DynamicMRS .b_vList li:nth-child(odd){margin-right:var(--smtc-gap-between-content-x-small)}#b_mrs_DynamicMRS .b_vList li a{display:flex;height:48px;padding:0 var(--mai-smtc-padding-card-default);align-items



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