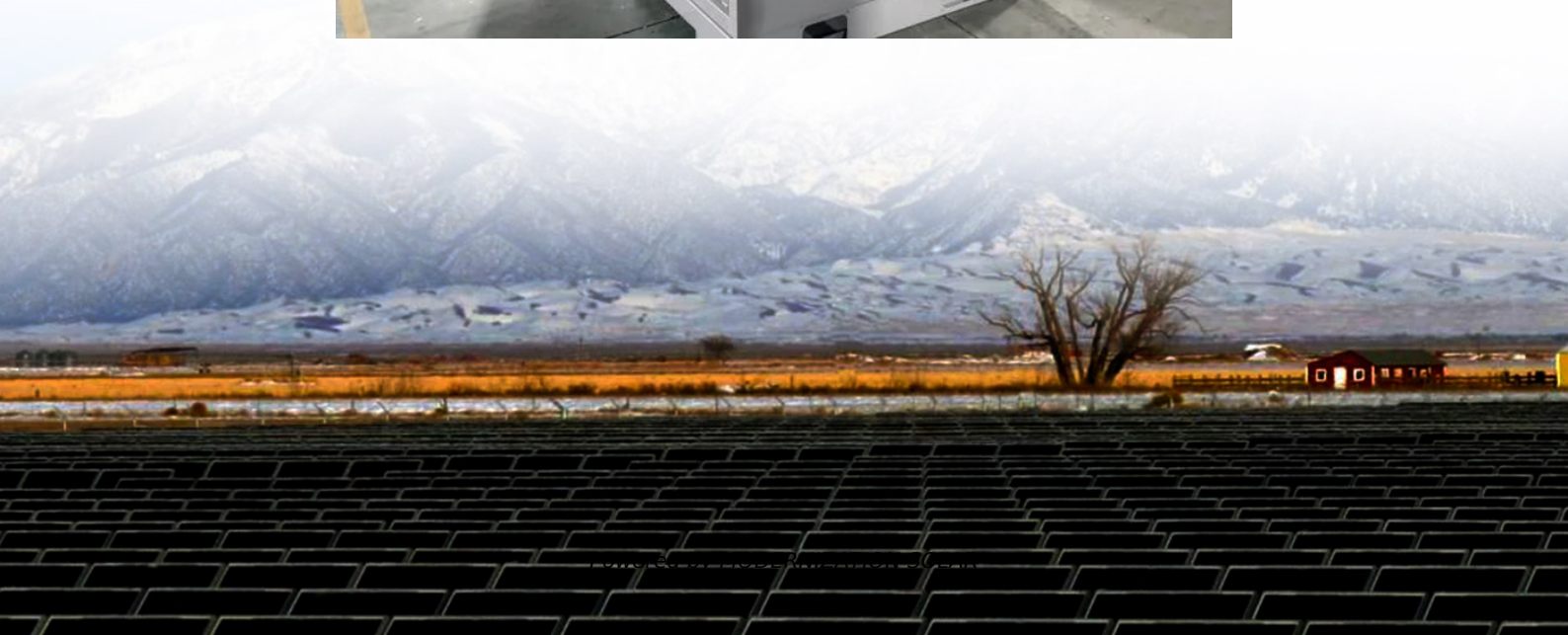


Base station traffic data





Overview

When is the peak of traffic in a base station?

We can find that the periodic term information of the base station traffic volume data obtained by the Prophet method reaches the peak of traffic between noon and 8:30 pm. The traffic volume data is in a low valley from 3 am to 7 am.

Can gcformer predict multi-base station traffic?

Current methods often fall short in effectively harnessing long-term trends and spatial interconnections among base stations. To bridge these gaps, this paper introduces the GCformer model, a novel approach that capitalizes on both spatial relationships and temporal patterns for multi-base station traffic prediction.

How many base stations are there in the Interent dataset?

The dataset, provided by Shanghai Telecom, contains more than 7.2 million records of accessing the Interent through 3,233 base stations from 9,481 mobile phones for six months. For example, the following figure shows the distribution of base stations. Each node denotes a base station in Shanghai, China.

How to predict 5G base station traffic volume?

Based on the above definitions, the 5G base station traffic volume prediction problem can be positioned as training a model using network topology G and feature matrix X of the temporal dimension data, and then calculating the traffic volume information of the base stations for the next m time instants, as shown in Eq. 1: (1) $Y = F(X, G)$



Base station traffic data

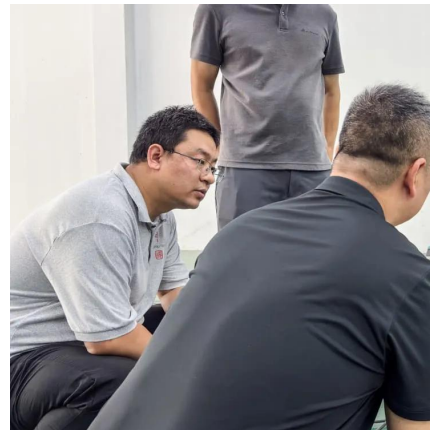


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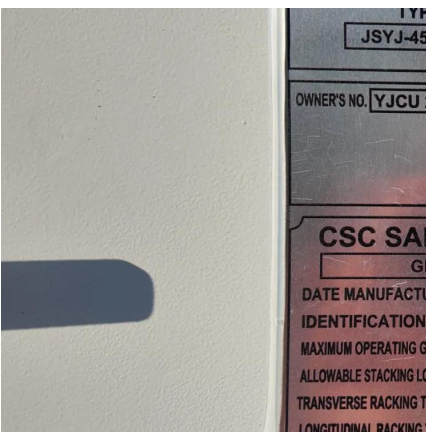
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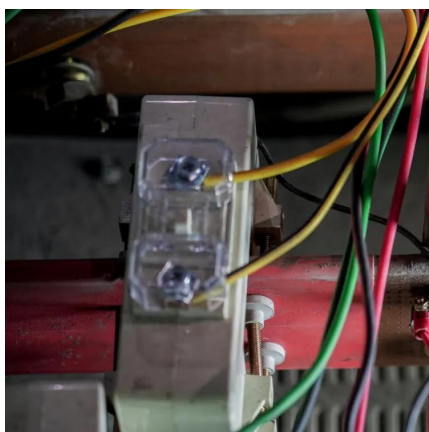
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