ABSTRACT

There is a rapid increase in use of wireless communication all over the world in the past ten years. Due to this rapid development of wireless communication and smart devices, the traditional architecture of cloud is unable to meet the increase in the requirements day to day. To meet the requirements efficiently and to provide good quality of service to the end users F-RAN has become a solution. But there are some challenges to be resolved regarding infrastructure, network traffic and caching mechanism of F-RANs. This paper provides a network traffic flow prediction algorithm based on LSTM mechanism to predict real time network traffic of different data types. This paper also proposed a collaborative filtering method and cognitive caching based on LSTM to reduce the total communication delay.

BASE PAPER

IF-RANs: Intelligent Traffic Prediction and Cognitive Caching Toward Fog-Computing-Based Radio Access Networks

BASE PAPER URL

https://ieeexplore.ieee.org/abstract/document/9085260/

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