عنوان مقاله:

Software Defined Network Traffic estimation using the kalman filter

محل انتشار:

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خلاصه مقاله:

One of the methods that can be used to analyze the network behavior is Estimation. Estimation of the network parameters is applied for Routing, Controller Placement (CP) in Software Defined Networks (SDN). By estimating the network traffic, the volume of the packets passed through any node or link can be estimated and an appropriate rout can be considered in SDN according to the network behavior and the network traffic. For this purpose, using Discrete Kalman Filter (DKF), the network traffic is estimated based on a given dynamic system having covariance matrix with .allowable error. This method can have a significant role in routing policies and even in controller placement

کلمات کلیدی:

Kalman filter, SDN, Controller placement, Traffic engineering, Traffic model