Random Wavelength Assignment using Normal Distribution in Wavelength Converted WDM Networks

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 128
Number 6

Year of Publication: 2015

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10.5120/ijca2015906615

Abstract

In this work, random assignment based on the normal distribution is modeled considering the wavelength conversion. The performance of the random assignment based on the normal distribution is compared with that of the random assignment based on the uniform distribution and first fit models. Two simulation cases are considered, one with 10 links and the other with 20 links. The results are presented. The performance of random assignment based on the normal distribution is superior to that of random assignment based on the uniform distribution and first fit models at most of the nodes.

References


**Index Terms**

Computer Science Networks

**Keywords**

WDM, RWA, Random assignment, First fit assignment, conversion of wavelengths.