Random Wavelength Assignment using Normal Distribution in Wavelength Converted WDM Networks

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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.