

14th International Conference on

Optics, Photonics & Laser

Optical Signal Transmission through fiber and its Optimisation

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The channel between transmitter and receiver is the most important part of the optical fiber networks like LAN, FTTH, EPON, NBN, OTN etc. So, in order to make successful communication, it is important to think what amount of signal is transmitted and how long it is transmitted through the fiber. Now the role of Frequency range of optic signal with the Optimisation tools in broadband communication for long haul transmission is to be discussed.

Finally, it is said that the optical fiber network will appear as the backbone of 5th generation communication completely by the elimination of several limitations (nonlinearities) like, Cross Phase Modulation (XPM).

Keywords- Linear Impairment; Non-Linear Impairment; EPON; FiOS; OTN; XPM; SPM

Biography

I have completed my M.Sc(Laser & Spectroscopy) in 2004 from Patna University, Patna and Ph.D (Optical Fiber Communication) in 2019 from Lalit Narayan Mithila University, Darbhanga. I have 15 yrs teaching experience in UG and PG level and currently working with Mangalayatan University, India. I have 3 published and 2 preprinted papers and have been attending and participating in approx. 50 Webinars and Seminars