|  |  |  |  |
| --- | --- | --- | --- |
| **Title:** | Optimization and Performance Analysis of 32 Channel 60 Gbps Hybrid Mono Stage MZM based WDM PON covering 120 km Transmission Distance | | |
| **Author(s) Name:** | I. S. Bristy and M. N. Uddin | | |
| **Contact Email(s):** | drnasir@aiub.edu | | |
| **Published Journal Name:** | IEEE 2021 2nd International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST), | | |
| **Type of Publication:** | Conference | | |
| **Volume:** |  | Issue |  |
| **Publisher:** | IEEE | | |
| **Publication Date:** | Published – 1st February 2021 | | |
| **ISSN:** |  | | |
|  |  | | |
| **DOI:** | [10.1109/ICREST51555.2021.9331216](https://doi.org/10.1109/ICREST51555.2021.9331216) | | |
|  |  | | |
| **URL:** | <https://doi.org/10.1109/ICREST51555.2021.9331216> | | |
| **Other Related Info.:** | pp. 635-639 | | |
|  | | | |

|  |  |
| --- | --- |
| **Abstract:** |  |
| In this paper, performance of 32 channel wavelength-division-multiplexed passive optical network having 60 Gbps bit rate is discussed and optimized by focusing bit error rate and optical signal to noise ratio. This Mono stage hybrid Mach-Zehnder modulation based scheme is evaluated for the highest 120 km covering distance with enhanced performance. | |