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| **Sno**. | **Title** | **Journal** | **Author** | **Methodology** | **Advantage** | **Limitation** | **Performance**  **Measures** |
| 1. | Channel Estimation of the Orthogonal Frequency Division Multiplexing | International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7, Issue-6S4, April 2019 | Wu et al | Discrete Cosine Transform (DCT) CE technique. | It does not increase the power overhead due to that this method achieved high spectral efficiency | The performance of the system degraded when the power increases | Power value, polarization loss, and estimation error |
| 2. | Channel Estimation of the Orthogonal Frequency Division Multiplexing | International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7, Issue-6S4, April 2019 | Fang et al | Time-domain  maximum likelihood CE technique | This has a better overhead reduction and enhanced tolerance against laser phase noise | This research work considered only time domain based CE, which is not much suitable for frequency domain CE | Polarization, chromatic mode dispersion, and noise level |
| 3. | Channel Estimation of the Orthogonal Frequency Division Multiplexing | International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7, Issue-6S4, April 2019 | Qian et al | Zero correlation based CE technique | It has best channel frequency response MSE and BER performance than the LS-CE method | This paper didn’t present any block diagram on proposed methodology. Hence, the researchers do not easily understand proposed work. | BER, and MSE |
| 4. | Channel Estimation of the Orthogonal Frequency Division Multiplexing | International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7, Issue-6S4, April 2019 | Travauxet al | MMSE technique based CE | The complexity of the system reduced using a low-rank approximation method in the proposed technique | This method increased the BER which degraded the system performance | BER |
| 5. | Channel Estimation of the Orthogonal Frequency Division Multiplexing | International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7, Issue-6S4, April 2019 | Nhanet al | Sparse preamble CE technique used for polarization deviation multiplexed coherent OFDM | This method achieved less BER. Hence, that method improved significant gain | The performance of the system was affected by the phase noise when fibre nonlinear signals were degraded | BER, and Peak to Average Power Ratio (PAPR) |

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| 6. | Channel Estimation of the Orthogonal Frequency Division Multiplexing | International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7, Issue-6S4, April 2019 | Pallaviram Sure et al | Large random matrix based CE for multiple inputs and multiple outputs -OFDM uplink | This method provided better MSE performance. | This method requires more area | MSE, and SNR |
| 7. | Channel Estimation of the Orthogonal Frequency Division Multiplexing | International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7, Issue-6S4, April 2019 | Jinfeng Tian et al | The blind CE based on Time-Varying Autocorrelation Function (TVACF) | This method achieved a significant performance gain in low SNR regime. | The proposed method requires more execution time. | SNR |
| 8. | Channel Estimation of the Orthogonal Frequency Division Multiplexing | International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7, Issue-6S4, April 2019 | Batavia et al | LS based on CE by using block type pilot sequence | It allows more accurate representation of high mobility which is the major advantage of the pilot sequence method. | If the system speed increases, it leads to the performance degradation in the LSCE technique | BER and error signal detection |
| 9. | Channel Estimation of the Orthogonal Frequency Division Multiplexing | International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7, Issue-6S4, April 2019 | Zhao et al | Weighted inter-frame averaging based CE | The Error Vector Magnitude (EVM) performance of proposed method was 2.4 dB better compared to traditional LS technique under -6 dBm launched power. | It may be not suitable for higher communication applications because the highly information loss | Error vector magnitude, and power, estimation accuracy |
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