

EE477 HW-4

Channel Equalization

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Channel-1

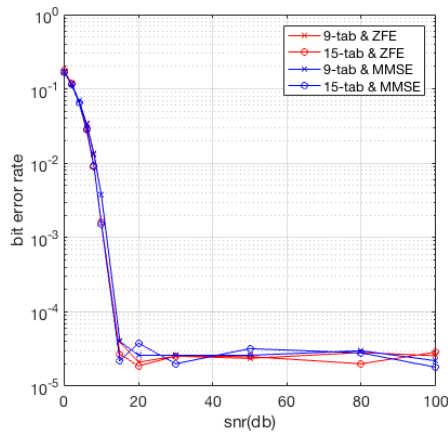


Fig. 1: for Channel-1

Channel-3

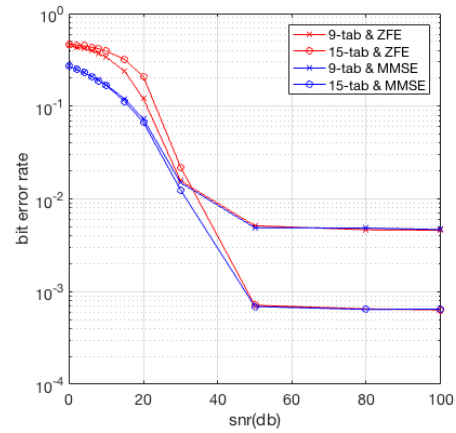


Fig. 3: for Channel-3

Channel-2

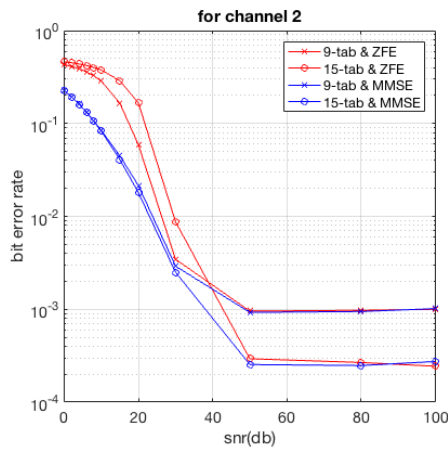


Fig. 2: for Channel-2

Results

- As we expected, for high snr values, the MMSE method and ZFE method converge each other. This property can be seen easily from Figure 2 and Figure 3.
- MMSE method is better for low snr values.
- Increasing tap value makes error graph better. In our case, 15-tap brings low error rate.