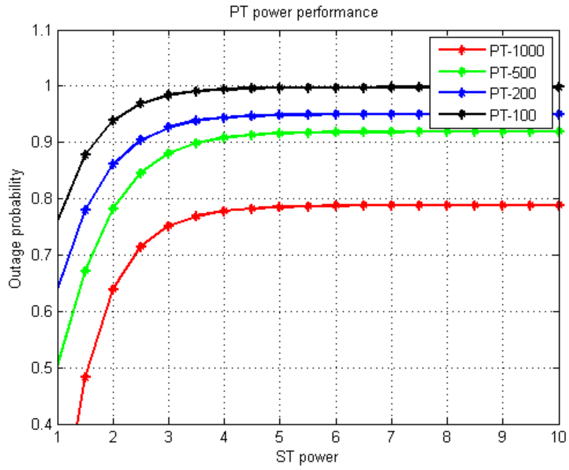

Figure 6: shows the outage probability as the function of ST power for different PT power in watts.

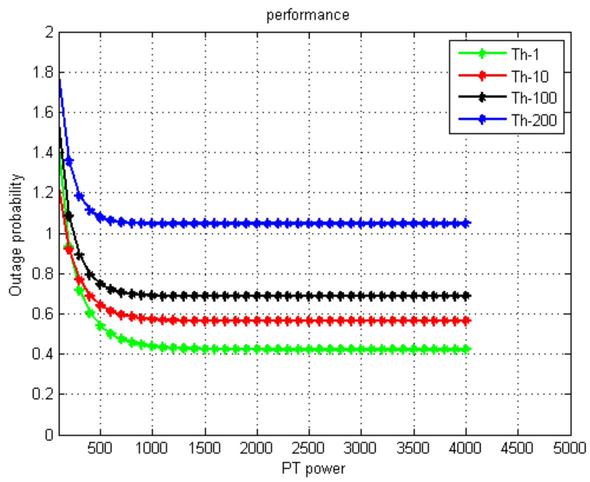

Figure 7: The effect of PT power on the interference.

6. Conclusion

It is challenging to analyze the interference in cognitive radio network with low complexity determined by the primary user parameters and accurate spectrum sensing technique we can easy to analyze the interference using matched filter at the output. ST power is another important parameter to degrade the performance of cognitive radio network. The simulation results are presented for better understanding the interference in cognitive radio and provide a useful reference for network designers.

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