Abstract

The present era of network and communication system is witnessing an increasing adoption of next generation wireless communication system. In this regards, the Ultra Wideband (UWB) technologies have already played a significant role in many applications pertaining to Wireless personal area (WPAN) network with higher data rates and some of its unique capabilities that are seemed in other variants of WPAN. The main purpose of this paper is to perform a thorough investigation of the existing techniques for enhancing the performance of UWB in order to understand what are the set of problems that are still not addressed by prior studies. The paper also discusses the existing survey works and discusses their level of effectiveness followed by discussion of all the significant literatures related to the topic. Finally, the paper extracts some significant research gaps after studying the existing research contributions.

References

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**Index Terms**

Computer Science

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**Keywords**

Ultra Wideband  UWB  Wireless Personal Area Network  Antenna Theory.