Abstract

Visible Light Communication (VLC) is a blooming research area that uses a visible light spectrum as the communication channel. Exponential growth of Light Emitting Diode (LED) deployment as a light source is encouraging its use for communication purposes as well.

With the introduction of VLC, LED can be used for communication while providing the primary function of illumination. In order to prove the strength of this concept, a location tracking protocol which communicate over visible light was developed. This protocol can be used in indoor and outdoor environments. A smart torch application was developed to demonstrate the strength of the protocol. This application can be used by security guards, military or police while they are patrolling indoor as well as outdoor environments during night time.

References

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**Index Terms**

Computer Science Communications

**Keywords**

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