LIFI TECHNOLOGY

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ABSTRACT:

At present 5G wireless technology is used for transferring data at high speed. LIFI technology is an advanced version of wireless communication technology, which transmits data and position between devices using light waves. It is a light communication system which transmits data at high speeds over the visible light, ultraviolet, and infrared systems. LIFI is high speed, bi-directional, fully networked wireless communication allowing us the light we use to illuminate our spaces. LIFI is where light becomes data. As we all are aware that connectivity is evolving, with LIFI technology we can unlock unprecedented data and bandwidth. The spectrum now has to accommodate more mobile users. Connected devices are forecasted to increase 20 Billion IOT devices by the year 2020. It is time to future proof our networks to enable the connectivity demands of tomorrow. With LIFI we can utilize spectrum more than 1000 times greater than the spectrum utilized for radio frequencies. In this project we have experimented whether we can transfer data (i.e. text message) from one mobile to another mobile by using arduino board and LDR sensor which senses the light source. Our future development in this is how to transmit an audio and video through LIFI technology.