

Development of Pseudo-Layer

Sushil Raut¹, Amit Patwardhan², Rabinder Henry²

¹SoST, International Institute of Technology, Pune, Maharashtra, India

²SoST, International Institute of Technology, Pune, Maharashtra, India

Postal address: P-14, Rajiv Gandhi IT Park, Hinjawadi, Pune, 411 057, India

e-mail: sushil2080@yahoo.com

Abstract: Pseudo-layer

The proposed work describes the development of Pseudo-layer; this layer is made for hiding the object in the area surrounding to it. Pseudo-layer consists of Multicolour LED Display (MLD). The display consists of 4 colours of LED's; Red, Blue, Green, White. The group of four LEDs forms 1 pixel, so number of such groups form multicolour display matrix. The digital camera acts as Back Image Sensor (BIS) which is connected at back portion of the layer. Photodiodes act as Surrounding Intensity Sensors (SIS) which are placed at all sides of layer. Camera captures the images from the back side and photodiode get the intensity of surrounding environment and after processing both the data, the MLD layer is used for displaying the result. Layer is designed to display only the portion of image or images covered by it.

Application :

It can be used in hiding spy operation robots in territory area.

It can be used for hiding soldiers.

It can be used for hiding military weapons in the battle.

It can be used creating illusions when required.

It can be used for communication purpose as virtual reality display.

Name : Sushil Bapurao Raut

Affiliation: Student of Masters in Technology (Intelligent system and Robotics)

Postal address: P-14, Rajiv Gandhi IT Park, Hinjawadi, Pune, 411 057, India

Mob. No.: +91 9975034864

Phone No.: +91 20 22933441

Fax No.: + +91 20 22934592

e-mail: sushil2080@yahoo.com , sushilraut2080@yahoo.com