

A NOVEL TECHNIQUE FOR RANGE DETECTION USING INFRARED SENSOR

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Abstract

Infrared light, commonly referred to as “IR”, is a common, easy-to-use, low power and low-cost media to transmit information. Conventionally, IR sensors are widely used in T.V. remote control and robotics applications. Infrared is used in short range applications (in order of 1 to10 feet) as it cannot be used easily as Ultrasonic range detection without high resolution echo detection in order of sub microsecond. A novel technique to detect range using Infrared is developed based on signal to noise (S/N) threshold detection of IR intensity sweep and is discussed in this paper.

Keywords : Infrared Sensor, Range Detection, Irradiance

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