Abstract

This paper presents a solar panel that constantly face sun at 90° to produce maximum voltage, as solar panel can move from east - west and north – south according to the durational movement of the sun. The microcontroller is designed to move the solar panel in four quadrants and operates with gear mechanism. This paper documents power generation using solar energy that can be used for home/domestic purposes, by controlling the movement of solar panels in the direction of the availability of sun rays. Robotic vehicle mechanism is used to move to the location where the maximum brightness/intensity is present which involves energy saving by switching ON and switching OFF the lights, fans and TV automatically by measuring the intensity and temperature of the surroundings.

References

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**Index Terms**

Computer Science | Power Systems

**Keywords**

LDR, DC Motors and Drives, Comparator, LCD, Solar Panel and LED