

Lampu Pintar Pada Koridor Menggunakan *Particle Swarm Optimization*

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Abstract

Electricity usage needs are increasing every year, where some electricity usage is for lights. The use of smart lighting can be a solution in reducing the use of electricity in lamps, especially LED lights. The solution proposed in the concept of smart lighting is by adjusting the intensity of the lights produced. Setting the lamp intensity is done using the Particle Swarm Optimization (PSO) method. Energy savings obtained by using a PSO for 67.3 %.

Keywords: *particle swarm optimization, smart lighting, dimming level, light intensity.*