

Mechatronic eye: modelling and design

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Abstract: In this paper the model and prototype of a human eye is developed. We are aimed on building and control of the simplified eye model, which is able to simulate some real eye biological functions. Control of the prototype has been motivated by monitoring a human eye behaviour in different environment conditions. In addition, optical properties, functions and operation of the applied electrical control of the pupil (apple of the eye) and control of the prototype movement focused on detection and tracking a light source are also presented.

Keywords: artificial eye, control, eye movement

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