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Illuminance Adjustment in a LED Lighting System Using a Webcam (Conference Paper)

Grigoryev, E.A.^a, Baklanov, A.E.^a, Grigoryeva, S.V.^a, Kumargazhanova, S.K.^a, Sayun, V.M.^b

^aEast Kazakhstan State Technical University, Ust-Kamenogorsk, Kazakhstan

^bTomsk State University of Control Systems and Radioelectronics, Tomsk, Russian Federation

Краткое описание Просмотров пристатейных ссылок (22)

This paper discusses a new system for illuminance adjustment by means of LED lamp control in an office room. The system delivers illuminance control using a webcam. The method for illuminance control proposed in the paper makes it possible to deliver uniform illuminance as required by regulatory documents and taking into account the natural light available. The method was implemented in a room model using an Arduino UNO board. C# software for the LED illuminance adjustment system was developed in Visual Studio.NET. A webcam was used as a light sensor. The new development can be potentially used to create shadowless LED lighting for healthcare institutions and enterprises that use high-precision equipment. © 2019 IEEE.