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**ABSTRACTS**

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*Received: 10 Sep. 2016**Accepted: 25 Sep. 2016***SIMULATION AS ERGONOMIC TOOL FOR EVALUATION OF  
ILLUMINATION QUALITY IN ENGINEERING**

(pages 1-7)

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Presov, michal.hatala@tuke.sk**Keywords:** illumination, ergonomics, engineering, Dialux**Abstract:** Presented article is focused on the presentation of ergonomic tool opportunities from the point of view of ergonomics which is able to quickly, reliably and appropriately evaluate the quality of illumination in the engineering. In the introduction, the article provides the overview of basic terminology from the presented issue and after that it provides the opportunity to become familiar with the software for evaluation the quality of lighting in the assembly workplace.*Received: 12 Sep. 2016**Accepted: 27 Sep. 2016***INFLUENCE OF PHYSICAL FACTORS OF WORKING ENVIRONMENT  
ON WORKER'S PERFORMANCE FROM ERGONOMIC POINT OF VIEW**

(pages 9-16)

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engineering, Park Komenského 9, 042 00 Košice, Slovakia, peter.ciznar@tuke.sk**Keywords:** physical factors, working environment, noise, vibration, lighting, microclimate**Abstract:** The article deals with the optimization of logistic flow of selected company in the area of software module Process Simulate. The aim is to design a logistics flow, which will reduce machine downtime, number of workers during

the operation of CNC centres or achievement the elimination of redundant manipulation steps of direct staff. Modelling and simulation of workplace in a software module Process Simulate enables to rationalize it in virtual environment, which will contribute to cost savings that are expended in the process of direct implementation of the proposals in practice.

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## **PRINCIPLE OF INVENTION GENERATING FOR THE INNOVATION WITHIN THE OPEN INNOVAITON SYSTEM**

(pages 17-20)

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**Keywords:** innovations, open innovation system, invention, sources of inventions

**Abstract:** According to the issue of invention sources for innovation nowadays the company gets the ideas from internal as well as external environment. But in addition there is also a specific group of inventions with origin in sources cooperation. They come from corporate innovative machine and in this context of cooperation they are difficult to classify into group of external or internal sources. Different available tools and techniques for corporate innovation machine support can help to develop it and to keep it running. The corporate innovation machine can run based on basic principles of Idea management, Idea Generator and more other tools and techniques, which use for implementation of innovation strategy planning can depends on internal and external company sources.

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