عنوان مقاله:

Investigating Effect of Intelligent Exterior With Louver to Reduce Energy Consumption

محل انتشار:

سومین کنگره بین المللی افق های جدید معماری و شهرسازی (سال: 1395)

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خلاصه مقاله:

The sun is one of the most important sources of energy supply, and by considering the limitation of energyresources, it attracts Designer's and engineer's atention to use this clean energy. Nowadays, In order to usemore suny energy, large expanses of building are covered by glasses, so windows play an important role incontrol of input sunlight to the building. In this condition desirable control of direct input sunlight to theinterior and storing energy face some problems. One of the solutions for suitable setting of interrior sunlightin the use of smart facing building motion. smart facing building motion has the possibility of adaption withthe interior condition to save and reduce energy consumption in building, and also providing comfortconditions for people, such as sunlight setting, input light, control of natural ventilation and in some casesproviding energy generation. In this paper we introduce and also investigate smart facing building motionthat by using the Louver on the outside helps regulating the light coming inside the building up to the desiredlevel, and also we investigate the way of constructing smart facing building motion and its sensitivity to .theoptical sensors, humidity, ambient temperature and its performance

کلمات کلیدی:

Sustainable architecture, Environmental conditions, Louvre, Sensors