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SiadEnv – ENVIRONMENTAL FRIENDLY E-BUILDING ENERGY MANAGEMENT SYSTEM

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Abstract

There is well known the international approach over the environment protection. In term of building management there are several common techniques that aim to reduce the energy loses over the buildings but none of them attempt to reduce the unnecessary energy consumption given by human habits. In this paper is presented SiadEnv, a new building energy management system that aim to reduce the energy consume and kipping the buildings occupants comfort on same time. Moreover, the system is able to learn from some site occupants settings and is babble to reproduce those demands on similar situations. Until now, on preliminary system tests the SiadEnv system have proved that it can bring an efficiency up to 40% on thermal energy used for heating the offices rooms during the winter. In the paper it is presented the SiadEnv system software and hardware architecture. It is described the thermal comfort module and it is presented the IEEAI building test for thermal comfort module.

Key words: building energy management tool, SiadEnv, temperature comfort control unit

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