An Efficient LSDM Lighting Control Logic Design on lighting control system

Sung-Il Hong*, Chi-ho Lin**

**School of Computer, Semyung University, Jecheon-city Chung-buk Republic of Korea*

***School of Computer, Semyung University, Jecheon-city Chung-buk Republic of Korea*

megadriver@hanmail.net, ich410@semyung.ac.kr

***(Pt9)Abstract*— In this paper, we propose an efficient LSDM lighting control logic design on lighting control system. The proposed LSDM lighting control logic is designed according to the operating conditions by the divide as the signal control part for I/O data bus and the timer/counter part for clock signal control. Also, the control logic is transmitted to MCU through a data bus by the environmental information detected from each sensor node. The propose LSDM lighting control logic was measured to power loss rate of the control logic in order to demonstrate the efficiency by applied to the control system. And it was proves that be effective to overall power consumption reduction.**

***Keyword*— Control logic, LSDM, Lighting control, Signal control, Power dissipation, MCU**

First A. Author: Sung-Il, Hong, The doctor's course completion, School of Computer, Semyung University, 65 Semyung-ro, Jecheon, Chungbuk, 390-711 Korea

March 2007 ~ August 2009: education masters of Semyung University Graduate
August 2009 ~ August 2012: The doctor's course completion at department of computer Information, semyung university graduate (Computer science majors)
August 2010 ~ Current: Aadjunct Professor of Daewon University College(Department of Multimedia Design)
Interest of areas: SoC CAD, CAD Algorithm, Embedded, Development of Courseware, Multimedia

Second Author: Chi-Ho, Lin, The professor, School of Computer, Semyung University, 65 Semyung-ro, Jecheon, Chungbuk, 390-711 Korea

August 1985: Bachelor of engineering, electronic engineering , an engineering collegeof Hanyang University Graduate
August 1987: Eengineering master's degree of Hanyang University Graduate(CAD major)
August 1996: Doctor of Engineering, of Hanyang University Graduate(CAD major)
August 1992 ~ Current: Professor, School of Computer, Semyung University
Interest of areas: SoC CAD, ASIC Design, CAD Algorithm, SOC Design, RTOS & Embedded System