
Electronic Devices Volume 3 Number 2 September 2014

Contents

Editorial i

Research

Low Cost Ambient Light Sensing Device based on Sulphided Cu₂O Thin Film Photo- Sensors
K.D.R.N. Kalubowila, J.K.D.S. Jayanetti, M.S. Gunewardne, K.M.D.C. Jayathileka, W. Siripala 43

From Mono-FPGA to Multi-FPGA Emulation Platform for NoC Performance Evaluations -
Junyan TAN, Virginie FRESSE, Frederic ROUSSEAU 52

Chain Management for Fireworks Industry Based on Rfid -
Liang Wang, Wenbi Wang 59

Users Classification on Broadcast and Television System Based on Statistical Analysis System Software -
Binbin, Wan, Taozheng Zhang, Jianping, Chai, Min, Zhao, Zhenlong, Zhang 65

Book Review 73

Conference Notification 75

- Sixth International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2015)
- Fifth International Conference on Innovative Computing Technology (INTECH 2015)
- Fourth International Conference on Future Generation Communication Technologies (FGCT 2015)

Editorial

We present the following research papers in this issue.

Ambient light sensing finds many applications in consumer electronics. *Kalubovila, Jayathilake, Siripala, Jayanetti and Gunewardene* in their paper on “**Low Cost Ambient Light Sensing Device based on Sulphided Cu₂O Thin Film Photo-Sensors**” have constructed a cost-effective standalone ambient light sensing device. The thin film based photo sensor is able to achieve good measurement accuracy the authors claim in the paper on Low Cost Ambient Light Sensing Device based on Sulphided Cu₂O Thin Film Photo-Sensors.

In the next paper on “**From Mono-FPGA to Multi-FPGA Emulation Platform for NoC Performance Evaluations**” the authors *Junyan TAN, Virginie FRESSE and Frederic ROUSSEAU* have presented a scalable emulation platform logic device such as FPGA. They have explored on several FPGA platforms as special techniques for allocating communication channels, physical links and suitable resource allocation scheme as Partitioning a NoC on multi-FPGA requires it.

RFID has potential in fireworks production security. Realizing it the authors *Liang Wang and Wenbi Wang* in their paper on “**Chain Management for Fireworks Industry Based on RFID**” have administered chain management using environmental monitoring system and the indoor positioning and tracking system based on RFID technology for real-time monitoring. The authors claim that the application of RFID would be safer and easily avoid accidents.

In the last paper on “**Users Classification on Broadcast and Television System Based on Statistical Analysis System Software**” the authors *Binbin, Wan, Taozheng Zhang, Jianping, Chai, Min, Zhao and Zhenlong, Zhang* have used the SAS software platform for organizing digital cable television programs. They found that the experimental results achieved the expected outcome.

Editors