

1st International Conference on Green Computing, Technology and Innovation

(ICGCTI 2013)

**Held at the 1st World Congress on Computing and Information
Technology (WCIT 2013)**

**Kuala Lumpur, Malaysia
4-6 March 2013**

ISBN: 978-1-5108-0860-7

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2013) by Society of Digital Information and Wireless Communication (SDIWC)
All rights reserved.

Printed by Curran Associates, Inc. (2015)

For permission requests, please contact Society of Digital Information and Wireless Communication (SDIWC) at the address below.

Society of Digital Information and Wireless Communication (SDIWC)
Unit 1010, 10/F, Miramar Tower
132 Nathan Road, Tsim Sha Tsui
Kowloon, Hong Kong

Phone: +(202)-657-4603

sdiwc@sdiwc.net

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

Hardware Design Space Exploration of Cordic Algorithm for Run-Time Reconfigurable Platform..... 1

Measuring Carbon Footprint of Computing Technology - A Case Study at ICIMOD 8

Telematics Solution for Teleco Industry in the Developing World..... 14

On Power Consumption in IPv6 Over Low Power Wireless Personal Area Network (6LoWPAN)..... 21

An Accelerated Coordination of Resource Utilization in Stochastic Autonomous Moving Multiagents..... 29

The Functional Mechanisms and Key Factors for The Energy Technology Knowledge-Sharing Web-Based Plateform..... 40

A New Approach for Enhancing High School Students' Energy Literacy and Awareness of Carbon Reduction..... 50

The Influence of Creativity Contest on Parents and Children's Concept of Water Conservation Technologies..... 61

Towards a Green Programming Paradigm for Mobile Software Development..... 74

Green IT Capability and Sustainable Development..... 80

An Intelligent Traffic Controller Based on Fuzzy Logic..... 89

Intelligent Lifting Mechanism for Pepper Harvester..... 94

Development of Active RFID System for Power Efficiency..... 100