## Journal of Electronic Systems Volume 3 Number 2 June 2013

\_\_\_\_\_

-----

Contents	
Editorial	i
Research	
Spectral Efficiency of Linear Multiuser Receiver over UWB High Data Rate Channel Based on Channel Division Multiple Access- Houda CHIHI, Ridha BOUALLEGUE	47
Silicon Eyes: GPS-GSM based Navigation Assistant for Viually Impaired using Capacitive Touch Braille Keypad and Smart SMS Facility- B. R. Prudhvi, Rishab Bagani	56
The Effect of Malaysian Customer Characteristics on Intention to Adopt Edutainment Services in Digital Home- Amily Fikry, Zuhal Hussein, Rizal Yusob	62
System-Level Design Space Exploration for Heterogeneous Parallel Dedicated Systems- Luigi Pomante	66
Conference Notification 8	83
The Eighth International Conference on Digital Information Management (ICDIM 2013)	
The Fifth International Conference on the Applications of Digital Information and Web Technologies     (ICADIWT 2013)	
<ul> <li>The First International Conference on New Visions for Information and Communication Technology (ICNVICT 2013)</li> </ul>	

## Editorial

This issue has the following interesting papers. In the opening paper on **"Spectral Efficiency of Linear Multiuser Receiver over UWB High Data Rate Channel Based on Channel Division Multiple Access"**, the authors *Houda CHIHI* and *Ridha BOUALLEGUE* have presented a design for innovative multiple access scheme called as Channel Division Multiple Access which allows simultaneous multiuser accessing to a common destination by considering the channel impulse response (CIR) of each user as a signature. The performance analysis of *ChDMA integration in MBOFDM UWB high data rate channel* leads to the emergence of *power delay profile and helped to analyze the work to investigate its impact in the spectral efficiency.* 

The next paper addresses about the navigational system for blind people. The authors *Prudhvi and Rishab Bagani* in their paper on **"Silicon Eyes: GPS-GSM based Navigation Assistant for Viually Impaired using Capacitive Touch Braille Keypad and Smart SMS Facility"** provided navigation information via audible messages and haptic feedback, helping the visually disabled to localize where they are and their mobility path way. In addition their system can able to provide the information needed to the user, in audio format using audio codec, including time, calendar, and object color using a 24-bit color sensor, obstacle distance using SONAR, navigation direction, ambient light and temperature conditions.

In the next paper on **"The Effect of Malaysian Customer Characteristics on Intention to Adopt Edutainment Services in Digital Home",** the authors *Amily Fikry, Zuhal Hussein* and *Rizal Yusob* have studied the intention of the consumers to adopt edutainment services in digital home.

In the next paper, the problems of HW/SW co-design of dedicated systems based on heterogeneous parallel architecture are addressed by *Luigi Pomante*. The author claims that the extended modeling strategy and the description of the adopted heuristic/metrics represent the core of the paper, **"System-Level Design Space Exploration for Heterogeneous Parallel Dedicated Systems"**.

We wish the readers a good consumption of the research pieces published in this issue.

## Editors