




































































- 
- An efficient multiplexing method of T-DMB and cell broadcast service in emergency alert systems** 
- Mihwa Song ; Kyungho Jun ; Sekchin Chang  
Publication Year: 2014 , Page(s): 549 - 557
-  |  |  ▶ Quick Abstract |  PDF (4588 KB) | |  HTML
- 
- A precoding and detection scheme for OFDM based wireless communication system in high-speed environment** 
- Ruiqi Zhang ; Bo Ai ; Lei Yang ; Hua Song ; Zong-Qiang Li  
Publication Year: 2014 , Page(s): 558 - 566
-  |  |  ▶ Quick Abstract |  PDF (891 KB)
- 
- A new scheme for compliance with TV white space regulations using Wi-Fi modules in a cognitive radio system** 
- Kyu-min Kang ; Jae Park  
Publication Year: 2014 , Page(s): 567 - 573
-  |  |  ▶ Quick Abstract |  PDF (3916 KB) | |  HTML
- 
- Design and implementation of a novel emergency wake-up alert system within a conventional T-DMB service network** 
- Geon Kim ; Yong-tae Lee ; So-ra Park ; Yong-hoon Lee ; Kyungseok Kim  
Publication Year: 2014 , Page(s): 574 - 579
-  |  |  ▶ Quick Abstract |  PDF (2909 KB)
- 
- A fully integrated ieee IEEE 802.15.4g MR-FSK SoC soc for smart utility network applications** 
- Mi-kyung Oh ; Jae-young Kim ; Sangjae Lee ; Youngae Jeon ; Sangsung Choi  
Publication Year: 2014 , Page(s): 580 - 586
-  |  |  ▶ Quick Abstract |  PDF (4586 KB) | |  HTML
- 
- A robust obstacle detection method for robotic vacuum cleaners** 
- Mun-cheon Kang ; Kwang-shik Kim ; Dong-ki Noh ; Jong-woo Han ; Sung-jea Ko  
Publication Year: 2014 , Page(s): 587 - 595
-  |  |  ▶ Quick Abstract |  PDF (3602 KB) | |  HTML
-

- 
- Obstacle avoidance routing scheme through optimal sink movement for home monitoring and mobile robotic consumer devices** 
- Chanak, P. ; Banerjee, I. ; Jin Wang ; Sherratt, R.S.  
Publication Year: 2014 , Page(s): 596 - 604
-  |  |  Quick Abstract |  PDF (597 KB)
- 
- Generalized connections and incentives for supporting CE devices in live streaming systems** 
- De Sales, L.M. ; de Sales, T.B.M. ; Almeida, H. ; Perkusich, A. ; Gorgônio, K.  
Publication Year: 2014 , Page(s): 605 - 613
-  |  |  Quick Abstract |  PDF (868 KB)
- 
- PT-LRU: a probabilistic page replacement algorithm for NAND flash-based consumer electronics** 
- Jinhua Cui ; Weiguo Wu ; Yinfeng Wang ; Zhangfeng Duan  
Publication Year: 2014 , Page(s): 614 - 622
-  |  |  Quick Abstract |  PDF (852 KB) |  HTML
- 
- An efficient file-aware garbage collection algorithm for NAND flash-based consumer electronics** 
- Hua Yan ; Qian Yao  
Publication Year: 2014 , Page(s): 623 - 627
-  |  |  Quick Abstract |  PDF (259 KB) |  HTML
- 
- Compressed and shared swap to extend available memory in virtualized consumer electronics** 
- Chiyoung Lee ; Cheol-ho Hong ; Seehwan Yoo ; Yoo, C.  
Publication Year: 2014 , Page(s): 628 - 635
-  |  |  Quick Abstract |  PDF (484 KB) |  HTML
- 
- Page replacement algorithm based on counting bloom filter for NAND flash memory** 
- Jun Liu ; Shuyu Chen ; Guiping Wang ; Tianshu Wu  
Publication Year: 2014 , Page(s): 636 - 643
-  |  |  Quick Abstract |  PDF (344 KB) |  HTML
- 
- Map cache management using dual granularity for mobile**

## storage systems

Huijeong Kim ; Sanghyuk Jung ; Yong Song

Publication Year: 2014 , Page(s): 644 - 652

 |  |  Quick Abstract |  PDF (583 KB) | |  HTML



**Voice authentication embedded solution for secured access control**

Galka, J. ; Masior, M. ; Salasa, M.

Publication Year: 2014 , Page(s): 653 - 661

 |  |  Quick Abstract |  PDF (1040 KB) | |  HTML



**An encryption approach to secure modification and deletion for flash-based storage**

Rize Jin ; Hyung-ju Cho ; Tae-sun Chung

Publication Year: 2014 , Page(s): 662 - 667

 |  |  Quick Abstract |  PDF (564 KB) | |  HTML



**Delegation-based robust authentication model for wireless roaming using portable communication devices**

Kumar, P. ; Gurtov, A. ; linatti, J. ; Sang-gon Lee

Publication Year: 2014 , Page(s): 668 - 674

 |  |  Quick Abstract |  PDF (326 KB) | |  HTML



**Hand gesture based remote control system using infrared sensors and a camera**

Erden, F. ; Çetin, A.

Publication Year: 2014 , Page(s): 675 - 680

 |  |  Quick Abstract |  PDF (580 KB) | |  HTML



**PVR system design of advanced video navigation reinforced with audible sound**

Eerenberg, O. ; Aarts, R.M. ; de With, P.H.N.

Publication Year: 2014 , Page(s): 681 - 689

 |  |  Quick Abstract |  PDF (1305 KB) | |  HTML



**High performance indexing for massive audio fingerprint data**

Ce Yu ; Runtao Wang ; Jian Xiao ; Jizhou Sun

Publication Year: 2014 , Page(s): 690 - 695



 |  |  Quick Abstract |  PDF (488 KB) |  HTML

---

**A real-time system for detecting indecent videos based on spatiotemporal patterns** 

Soonhong Jung ; Junsic Youn ; Sanghoon Sull

Publication Year: 2014 , Page(s): 696 - 701

 |  |  Quick Abstract |  PDF (808 KB) |  HTML






































---

**Eigen directional bit-planes for robust face recognition**

Lei Lei ; Seung-wook Kim ; Won-jae Park ; Dae-Hwan Kim ; Sung-jea Ko

Publication Year: 2014 , Page(s): 702 - 709

 |  |  Quick Abstract |  PDF (977 KB) |  HTML

- 
- A novel depth image enhancement method based on the linear surface model** 
- Seok-Jae Kang ; Mun-cheon Kang ; Dae-Hwan Kim ; Sung-jea Ko  
Publication Year: 2014 , Page(s): 710 - 718
-  |  |  [Quick Abstract](#) |  [PDF \(2456 KB\)](#) | |  [HTML](#)
- 
- Image segmentation using linked mean-shift vectors and its implementation on GPU** 
- Hanjoo Cho ; Suk-Ju Kang ; Sung In Cho ; Young Hwan Kim  
Publication Year: 2014 , Page(s): 719 - 727
-  |  |  [Quick Abstract](#) |  [PDF \(1454 KB\)](#) | |  [HTML](#)
- 
- Bi-predictive motion estimation for HEVC on a graphics processing unit (GPU)** 
- Radicke, S. ; Hahn, J.-U. ; Qi Wang ; Grecos, C.  
Publication Year: 2014 , Page(s): 728 - 736
-  |  |  [Quick Abstract](#) |  [PDF \(666 KB\)](#) | |  [HTML](#)
- 
- Voice activity detection system for smart earphones** 
- Lezzoum, N. ; Gagnon, G. ; Voix, J.  
Publication Year: 2014 , Page(s): 737 - 744
-  |  |  [Quick Abstract](#) |  [PDF \(785 KB\)](#) | |  [HTML](#)
- 
- A computation and energy reduction technique for HEVC intra mode decision** 
- Ozcan, E. ; Kalali, E. ; Adibelli, Y. ; Hamzaoglu, I.  
Publication Year: 2014 , Page(s): 745 - 753
-  |  |  [Quick Abstract](#) |  [PDF \(489 KB\)](#) | |  [HTML](#)
- 
- A low energy HEVC inverse transform hardware** 
- Kalali, E. ; Ozcan, E. ; Yalcinkaya, O. ; Hamzaoglu, I.  
Publication Year: 2014 , Page(s): 754 - 761
-  |  |  [Quick Abstract](#) |  [PDF \(372 KB\)](#) | |  [HTML](#)
- 
- Smart cloud search services: verifiable keyword-based semantic search over encrypted cloud data** 
- Zhangjie Fu ; Jiangang Shu ; Xingming Sun ; Linge, N.

Publication Year: 2014 , Page(s): 762 - 770

 |  |  [Quick Abstract](#) |  [PDF](#) (602 KB)

---

**2014 Index IEEE Transactions on Consumer Electronics  
Volume 60** 

Publication Year: 2014 , Page(s): 771 - 777

 |  |  [PDF](#) (84 KB)

---

**Subject index** 

Publication Year: 2014 , Page(s): 777 - 789

 |  |  [PDF](#) (115 KB)

---

**Preparation of papers for publication in IEEE Transactions on  
Consumer Electronics**

Publication Year: 2014 , Page(s): c3

 |  |  [PDF](#) (37 KB)