



















-
- Unequal error protection scheme based hierarchical 16-QAM for 3-D video transmission** 
- Alajel, K.M. ; Wei Xiang ; Yafeng Wang
Publication Year: 2012 , Page(s): 731 - 738
Cited by: [Papers \(1\)](#)
-  |  |  [Quick Abstract](#) |  [PDF \(1778 KB\)](#) | |  [HTML](#)
-
- Design and implementation of a low-power OFDM receiver for wireless communications** 
- Chu Yu ; Chen-Hen Sung ; Chien-Hung Kuo ; Mao-Hsu Yen ; Sao-Jie Chen
Publication Year: 2012 , Page(s): 739 - 745
-  |  |  [Quick Abstract](#) |  [PDF \(789 KB\)](#) | |  [HTML](#)
-
- Video streaming exploiting multiple-antenna techniques of wirelessMAN-advanced systems** 
- Jeongsik Yun ; Sanghyun Bak ; Nulibyul Kim ; Kwanghoon Choi ; Jaekwon Kim
Publication Year: 2012 , Page(s): 746 - 751
-  |  |  [Quick Abstract](#) |  [PDF \(544 KB\)](#) | |  [HTML](#)
-
- Nonlinear companding transform technique for reducing PAPR of OFDM signals** 
- Wang, Y. ; Wang, L.-H. ; Ge, J.-H. ; Ai, B.
Publication Year: 2012 , Page(s): 752 - 757
Cited by: [Papers \(2\)](#)
-  |  |  [Quick Abstract](#) |  [PDF \(736 KB\)](#) | |  [HTML](#)
-
- Analysis and design of coding and interleaving in a MIMO-OFDM communication system** 
- Iqbal, Z. ; Nooshabadi, S. ; Heung-No Lee
Publication Year: 2012 , Page(s): 758 - 766
Cited by: [Papers \(3\)](#)
-  |  |  [Quick Abstract](#) |  [PDF \(2642 KB\)](#) | |  [HTML](#)
-
- Human powered wireless charger for low-power mobile electronic devices** 
- Dan Dai ; Jing Liu
Publication Year: 2012 , Page(s): 767 - 774

Cited by: [Papers \(2\)](#)

 |  |  [Quick Abstract](#) |  [PDF \(1185 KB\)](#) | |  [HTML](#)

Optimal design of a wireless power transfer system with multiple self-resonators for an LED TV 

Jinwook Kim ; Hyeon-Chang Son ; Do-Hyeon Kim ; Young-Jin Park

Publication Year: 2012 , Page(s): 775 - 780

Cited by: [Papers \(7\)](#)


 |  |  [Quick Abstract](#) |  [PDF \(778 KB\)](#) | |  [HTML](#)

Implementation of automatic gas monitoring in a domestic energy management system 

Qi Liu ; Linge, N. ; Lynch, V.

Publication Year: 2012 , Page(s): 781 - 786

 |  |  [Quick Abstract](#) |  [PDF \(1680 KB\)](#) | |  [HTML](#)

Increasing reliability and availability in smart spaces: A novel architecture for resource and service management 

Bhardwaj, S. ; Ozcelebi, T. ; Syed, A.A. ; Lukkien, J. ; Ozunlu, O.

Publication Year: 2012 , Page(s): 787 - 793

 |  |  [Quick Abstract](#) |  [PDF \(2811 KB\)](#) | |  [HTML](#)

An intelligent self-adjusting sensor for smart home services based on ZigBee communications 

JinSung Byun ; Boungju Jeon ; Junyoung Noh ; Youngil Kim ; Sehyun Park

Publication Year: 2012 , Page(s): 794 - 802

Cited by: [Papers \(9\)](#)

 |  |  [Quick Abstract](#) |  [PDF \(4464 KB\)](#) | |  [HTML](#)

A new interface using image-based foot tracking for motion sensing devices 

Da-Un Jung ; Yong-In Yun ; Jong-Soo Choi

Publication Year: 2012 , Page(s): 803 - 809

 |  |  [Quick Abstract](#) |  [PDF \(2991 KB\)](#) | |  [HTML](#)

Discovering and accessing peer-to-peer services in UPnP-based federated Domotic Islands 

Bellavista, P. ; Gallo, P. ; Giannelli, C. ; Toniolo, G. ; Zoccola, A.

Publication Year: 2012 , Page(s): 810 - 818

Cited by: [Papers \(1\)](#)

 |  |  [Quick Abstract](#) |  [PDF \(348 KB\)](#) | |  [HTML](#)

[A human detection method for residential smart energy systems based on Zigbee RSSI changes](#) 

[Mrazovac, B.](#) ; [Bjelica, M.Z.](#) ; [Kukolj, D.](#) ; [Todorovic, B.M.](#) ; [Samardzija, D.](#)

Publication Year: 2012 , Page(s): 819 - 824

Cited by: [Papers \(8\)](#)

 |  |  [Quick Abstract](#) |  [PDF \(1270 KB\)](#) | |  [HTML](#)

[An efficient use of PRAM for an enhancement in the performance and durability of NAND storage systems](#) 

[Sangyong Lee](#) ; [Sanghyuk Jung](#) ; [Yong Ho Song](#)

Publication Year: 2012 , Page(s): 825 - 833

Cited by: [Papers \(1\)](#)

 |  |  [Quick Abstract](#) |  [PDF \(514 KB\)](#) | |  [HTML](#)

[Compressed memory swap for QoS of virtualized embedded systems](#) 

[Jeaho Hwang](#) ; [Jinkyu Jeong](#) ; [Hwanju Kim](#) ; [Jeonghwan Choi](#) ; [Joonwon Lee](#)

Publication Year: 2012 , Page(s): 834 - 840

Cited by: [Papers \(2\)](#)

 |  |  [Quick Abstract](#) |  [PDF \(835 KB\)](#) | |  [HTML](#)

[BEST: Best-effort energy saving techniques for NAND flash-based hybrid storage](#) 

[Hyotaek Shim](#) ; [Jin-Soo Kim](#) ; [Seungryoul Maeng](#)

Publication Year: 2012 , Page(s): 841 - 848

Cited by: [Papers \(1\)](#)
























 |  |  [Quick Abstract](#) |  [PDF \(1425 KB\)](#) | |  [HTML](#)
































[PCRAM-assisted ECC management for enhanced data reliability in flash storage systems](#) 

[Hakyong Lee](#) ; [Sanghyuk Jung](#) ; [Yong Ho Song](#)

Publication Year: 2012 , Page(s): 849 - 856

 |  |  [Quick Abstract](#) |  [PDF \(458 KB\)](#) | |  [HTML](#)

-
- An efficient multiple object detection and tracking framework for automatic counting and video surveillance applications** 
- del-Blanco, C.R. ; Jaureguizar, F. ; Garcia, N.
Publication Year: 2012 , Page(s): 857 - 862
Cited by: [Papers \(4\)](#)
-  |  |  [Quick Abstract](#) |  [PDF \(407 KB\)](#) | |  [HTML](#)
-
- Depth video-based human activity recognition system using translation and scaling invariant features for life logging at smart home** 
- Jalal, A. ; Uddin, M.Z. ; Kim, T.-S.
Publication Year: 2012 , Page(s): 863 - 871
Cited by: [Papers \(7\)](#)
-  |  |  [Quick Abstract](#) |  [PDF \(656 KB\)](#) | |  [HTML](#)
-
- Fast rate control algorithm in frame-layer for H.264/AVC video coding** 
- Myoung-Jin Kim ; Min-Cheol Hong
Publication Year: 2012 , Page(s): 872 - 879
-  |  |  [Quick Abstract](#) |  [PDF \(608 KB\)](#) | |  [HTML](#)
-
- Multi-directional spatial error concealment using adaptive edge thresholding**
- Asheri, H. ; Rabiee, H.R. ; Pourdanghani, N. ; Ghanbari, M.
Publication Year: 2012 , Page(s): 880 - 885
Cited by: [Papers \(3\)](#)
-  |  |  [Quick Abstract](#) |  [PDF \(606 KB\)](#) | |  [HTML](#)

-
- Three dimensional touchless tracking of objects using integrated capacitive sensors** 
- Aezinia, F. ; Yifan Wang ; Bahreyni, Behraad
Publication Year: 2012 , Page(s): 886 - 890
-  |  |  [Quick Abstract](#) |  [PDF \(656 KB\)](#) | |  [HTML](#)
-
- Single image super-resolution using incoherent sub-dictionaries learning** 
- Fei Zhou ; Wenming Yang ; Qingmin Liao
Publication Year: 2012 , Page(s): 891 - 897
Cited by: [Papers \(2\)](#)
-  |  |  [Quick Abstract](#) |  [PDF \(579 KB\)](#) | |  [HTML](#)
-
- Efficient implementation of an SVM-based speech/music classifier by enhancing temporal locality in support vector references** 
- Chungsoo Lim ; Seong-Ro Lee ; Joon-Hyuk Chang
Publication Year: 2012 , Page(s): 898 - 904
-  |  |  [Quick Abstract](#) |  [PDF \(548 KB\)](#) | |  [HTML](#)
-
- Efficient motion vector selection and mode decision schemes for transcoder between DVC and VC-1** 
- Jae-Yung Lee ; Jong-Ki Han ; Dong-Gyu Sim
Publication Year: 2012 , Page(s): 905 - 911
-  |  |  [Quick Abstract](#) |  [PDF \(11921 KB\)](#) | |  [HTML](#)
-
- Error surface-aware modeling algorithm for quarter-pixel motion estimation** 
- Junsang Cho ; Suh, J.W. ; Gwanggil Jeon ; Jooheung Lee ; Jechang Jeong
Publication Year: 2012 , Page(s): 912 - 916
-  |  |  [Quick Abstract](#) |  [PDF \(539 KB\)](#) | |  [HTML](#)
-
- Temporal segmentation tool for high-quality real-time video editing software** 
- Cuevas, C. ; Garcia, N.
Publication Year: 2012 , Page(s): 917 - 925
Cited by: [Papers \(1\)](#)

 |  |  [Quick Abstract](#) |  [PDF \(1769 KB\)](#) | |  [HTML](#)

Inter mode selection for depth map coding in 3D video 

Liquan Shen ; Zhaoyang Zhang ; Zhi Liu

Publication Year: 2012

Cited by: [Papers \(3\)](#)

 |  |  [Quick Abstract](#) |  [PDF \(288 KB\)](#) | |  [HTML](#)

Scalable video coding with large block for UHD video 

Un-Ki Park ; Haechul Choi ; Jung Won Kang ; Jae-Gon Kim

Publication Year: 2012 , Page(s): 932 - 940


 |  |  [Quick Abstract](#) |  [PDF \(1998 KB\)](#) | |  [HTML](#)

Learning-based super-resolution image reconstruction on multi-core processor 

Goto, T. ; Kawamoto, Y. ; Sakuta, Y. ; Tsutsui, A. ; Sakurai, M.

Publication Year: 2012 , Page(s): 941 - 946

 |  |  [Quick Abstract](#) |  [PDF \(485 KB\)](#) | |  [HTML](#)

Periodic motion detection with ROI-based similarity measure and extrema-based reference selection 

Gaojian Li ; Xintong Han ; Weiyao Lin ; Hui Wei

Publication Year: 2012 , Page(s): 947 - 954

 |  |  [Quick Abstract](#) |  [PDF \(601 KB\)](#) | |  [HTML](#)

Error detection scheme for the H.264/AVC using the RD optimized motion vector constraints 

Man-Geun Ko ; Jang-Eui Hong ; Jae-Won Suh

Publication Year: 2012 , Page(s): 955 - 962

 |  |  [Quick Abstract](#) |  [PDF \(728 KB\)](#) | |  [HTML](#)

Illumination-robust face recognition system based on differential components 

Sang-Heon Lee ; Dong-Ju Kim ; Jin-Ho Cho

Publication Year: 2012 , Page(s): 963 - 970

 |  |  [Quick Abstract](#) |  [PDF \(508 KB\)](#) | |  [HTML](#)

Fast edge-preserving depth image upsampler



Sung-Yeol Kim ; Yo-Sung Ho

Publication Year: 2012 , Page(s): 971 - 977

Cited by: [Papers \(1\)](#)

| | [Quick Abstract](#) | [PDF \(1601 KB\)](#) | | [HTML](#)

Efficient context-aware selection based on user feedback



Byoung-Hoon Lee ; Deok-Hwan Kim

Publication Year: 2012 , Page(s): 978 - 984

Cited by: [Papers \(1\)](#)

| | [Quick Abstract](#) | [PDF \(1068 KB\)](#) | | [HTML](#)

Quality metric to assess video streaming service over TCP considering temporal location of pauses



Rodriguez, D.Z. ; Abrahao, J. ; Begazo, D.C. ; Rosa, R.L. ; Bressan, G.

Publication Year: 2012 , Page(s): 985 - 992

Cited by: [Papers \(4\)](#)

| | [Quick Abstract](#) | [PDF \(477 KB\)](#) | | [HTML](#)

Fast feature-based video stabilization without accumulative global motion estimation



Jie Xu ; Hua-Wen Chang ; Shuo Yang ; Minghui Wang

Publication Year: 2012 , Page(s): 993 - 999

Cited by: [Papers \(1\)](#)

| | [Quick Abstract](#) | [PDF \(823 KB\)](#) | | [HTML](#)

Multistage utterance verification for keyword recognition-based online spoken content retrieval



Jeong-Sik Park ; Gil-Jin Jang ; Ji-Hwan Kim

Publication Year: 2012 , Page(s): 1000 - 1005

| | [Quick Abstract](#) | [PDF \(336 KB\)](#) | | [HTML](#)





































Music relationship visualization based on melody piece transition using conditional divergence



Maekaku, T. ; Kasai, H.

Publication Year: 2012 , Page(s): 1006 - 1012

| | [Quick Abstract](#) | [PDF \(919 KB\)](#) | | [HTML](#)






























-
- Robust people counting system based on sensor fusion** 
- Byoung-Kyu Dan ; You-Sun Kim ; Suryanto ; June-Young Jung ; Sung-Jea Ko
Publication Year: 2012 , Page(s): 1013 - 1021
Cited by: [Papers \(3\)](#)
-  |  |  [Quick Abstract](#) |  [PDF \(1506 KB\)](#) | |  [HTML](#)
-
- H.264/AVC encoding control for fast stream joiner in interactive multivision video** 
- Uchihara, N. ; Kasai, H.
Publication Year: 2012 , Page(s): 1022 - 1030
Cited by: [Papers \(1\)](#)
-  |  |  [Quick Abstract](#) |  [PDF \(582 KB\)](#) | |  [HTML](#)
-
- Frame layer CBR encoding to reduce large picture quality fluctuation** 
- Hoonjae Lee ; Taehyeon Choi ; Sull, Sanghoon
Publication Year: 2012 , Page(s): 1031 - 1037
-  |  |  [Quick Abstract](#) |  [PDF \(1381 KB\)](#) | |  [HTML](#)
-
- Hybrid partitioned H.264 full high definition decoder on embedded quad-core** 
- Minsoo Kim ; Joon Ho Song ; Do-Hyung Kim ; Shihwa Lee
Publication Year: 2012 , Page(s): 1038 - 1044
Cited by: [Papers \(1\)](#)
-  |  |  [Quick Abstract](#) |  [PDF \(345 KB\)](#) | |  [HTML](#)
-
- Rolling shutter distortion removal based on curve interpolation** 
- Yufen Sun ; Gang Liu
Publication Year: 2012 , Page(s): 1045 - 1050
-  |  |  [Quick Abstract](#) |  [PDF \(1128 KB\)](#) | |  [HTML](#)
-
- Software defined radio based implementation of RFID tag in next generation mobiles** 
- Solic, P. ; Radić, J. ; Rozic, N.
Publication Year: 2012 , Page(s): 1051 - 1055
Cited by: [Papers \(3\)](#)
-  |  |  [Quick Abstract](#) |  [PDF \(779 KB\)](#) | |  [HTML](#)

 **Hybrid broadcast broadband TV implementation in java based applications on digital TV devices**

Kuzmanovic, N. ; Mihic, V. ; Maruna, T. ; Vidakovic, M. ; Teslic, N.

Publication Year: 2012 , Page(s): 1056 - 1062

 |  |  Quick Abstract |  PDF (735 KB) | |  HTML

-
- A java API interface for the integration of DTV services in embedded multimedia devices** 
- Vidakovic, M. ; Maruna, T. ; Teslic, N. ; Mihic, V.
Publication Year: 2012 , Page(s): 1063 - 1069
Cited by: Papers (2)
-  |  |  Quick Abstract |  PDF (839 KB) | |  HTML
-
- Serialdriver: improving the reliability of device drivers through serialization** 
- Chao Ma ; Peng Zhao ; Shi-Min Hu
Publication Year: 2012 , Page(s): 1070 - 1076
-  |  |  Quick Abstract |  PDF (359 KB) | |  HTML
-
- Designing an extension API for bridging Ginga iDTV applications and home services** 
- de Lucena, V.F. ; Viana, N.S. ; Maia, O.B. ; Filho, J.E.C. ; da Silva, W.S.J.
Publication Year: 2012 , Page(s): 1077 - 1085
Cited by: Papers (1)
-  |  |  Quick Abstract |  PDF (1934 KB) | |  HTML
-
- An open architecture to develop a handheld device for helping visually impaired people** 
- Battaglia, F. ; Iannizzotto, G.
Publication Year: 2012 , Page(s): 1086 - 1093
-  |  |  Quick Abstract |  PDF (524 KB) | |  HTML
-
- RemoteUI: A high-performance remote user interface system for mobile consumer electronic devices** 
- Thommes, D. ; Gerlicher, A. ; Qi Wang ; Grecos, C.
Publication Year: 2012 , Page(s): 1094 - 1102
-  |  |  Quick Abstract |  PDF (2125 KB) | |  HTML
-
- Preparation of papers for publication in IEEE Transactions on Consumer Electronics** 
- Publication Year: 2012 , Page(s): c3
-  |  |  PDF (44 KB)
-



Contents (Continued from front cover)

Publication Year: 2012 , Page(s): c4

 |  |  PDF (27 KB)