

2011 IEEE International Conference on Consumer Electronics -Berlin

(ICCE-Berlin)

**Berlin, Germany
6-8 September 2011**



**IEEE Catalog Number: CFP11BIC-PRT
ISBN: 978-1-4577-0233-4**

TABLE OF CONTENTS

Real-time Free-viewpoint DIBR on GPUs for 3DTV Systems	1
<i>German Bravo, Luat Do, Svitlana Zinger</i>	
Real-Time 3-D HDTV Depth Cue Conflict Optimization.....	5
<i>Juan Antonio Rodrigo, David Jimenez, Jose Manuel Menendez</i>	
Object Depth Adjustment based on Planar Approximation in Stereo Images	10
<i>Hanje Park, Hoonjae Lee, Sanghoon Sull</i>	
An Efficient Hardware-Software Codesign of 3D Rasterization Module	15
<i>Yun-Nan Chang</i>	
Feeling the Pack: Strategies for an Optimal Participatory System to Sense and Recognize Noise Pollution	17
<i>Ludovico Antonio Muratori, Paola Salomoni, Giovanni Pau</i>	
Hands-free VoIP Solution for Embedded Platforms in Consumer Electronics.....	22
<i>Istvan Papp, Zoran Saric, Szabolcs Pal, Ivan Velikic</i>	
Faster Processing of GUI Display Using Genetic Algorithm.....	26
<i>Takanori Mori, Takako Nonaka, Tomohiro Hase</i>	
The Alliance for User-Friendly Terminals for Horizontal Markets – Exchangeable Conditional Access and Digital Rights Management Systems - Interoperable Digital Television Receivers	29
<i>Hans Meierhofer, Iris Henseler-Unger</i>	
Client Protection in Wireless Home Networks	34
<i>Kandaraj Piamrat, Patrick Fontaine</i>	
A Novel Concept for Hybrid Quality Improvements in Consumer Networks.....	39
<i>Florian Adamsky, Christopher Kohnen, Christian Uberall, Veselin Rakoccevic, Muttukrishnan Rajarajan, Rudolf Jager</i>	
Using IPv6 and 6LoWPAN for Home Automation Networks.....	44
<i>Bernd Michael Dorge, Thomas Scheffler</i>	
An Intelligent Home Networking System	48
<i>Vukasin Nuhijevic, Sasa Vukosavljev, Boris Radin, Nikola Teslic, Mirko Vucelja</i>	
Improved Video Compression Technology and the Emerging High Efficiency Video Coding Standard	52
<i>Detlev Marpe, Heiko Schwarz, Thomas Wiegand, Sebastian Boße, Benjamin Bross, Philipp Helle, Tobias Hinz, Heiner Kirchhoffer, Haricharan Lakshman, Tung Nguyen, Simon Oudin, Mischa Siekmann, Karsten Suhring, Martin Winken</i>	
The VP8 Video Codec - Overview and Comparison to H.264/AVC	57
<i>Christian Feller, Juergen Wuenschmann, Thorsten Roll, Albrecht Rothermel</i>	
Novel INTRA modes with Temporal-Spatial Prediction for H.264/AVC	62
<i>Tian Song, Takashi Shimamoto, Takafumi Bando, Wenjun Zhao</i>	
Unequal Error Protection of H.264 Scalable Video Coding using Discrete Wavelet Transfrom within A Lognormal Shadowing Environment	66
<i>Andrew Morcos, Tallal Elshabrawy</i>	
Proposal and Development of Encryption Key Distribution System Using Visible Light Communication.....	71
<i>Kuniyoshi Okuda, Masashi Murata, Tomoo Nakamura, Wataru Uemura, Takuya Yamamoto</i>	
A Network Aware Protocol for Switching HTTP Streams Between Devices.....	74
<i>Volker Parsiegla, Stephan Rein, Adam Wolisz</i>	
Remotely Powered Sensor Network over CATV Infrastructure	79
<i>Young Cheol Kim, Ick Chang Choi, Byoung-Ju Yun, Hyun Deok Kim</i>	
Security Analysis of Authentication Protocols for Next-Generation Mobile and CE Cloud Services	83
<i>Slawomir Grzonkowski, Peter M. Corcoran, Thomas Coughlin</i>	
Adaptive Filtering for Prediction Signal in Video Compression	88
<i>Yeo-Jin Yoon, Seung-Jin Baek, Seung-Won Jung, Young-Hyun Kim, Sung-Jea Ko</i>	
Adaptive Node Dimension (AND) Calculation Algorithm for Mesh Based Motion Estimation.....	91
<i>Kalyan Goswami, Gwang-Soo Hong, Byung-Gyu Kim</i>	
Bandwidth-Efficient Adaptive Cache-like Buffer Architecture in Motion Compensation for General Video Codec.....	96
<i>Jaehyun Kim, Sungoh Kim, Tetsuo Kosuge</i>	
Ensuring Privacy in a Distributed Video Coding Surveillance Scenario	100
<i>J. L. Martinez, J. M. Villalon, J. H. Parreno, P. Cuenca, H. Kalva</i>	

Overlay Text Localization for Full HD Video Applications	342
<i>Jong-Ju Hong, Yun-Ki Han, Woo-Jin Song, Junghwan Lee, HeeJung Hong, EuiYeol Oh</i>	
Sill Image Object Categorization Using 2D Models	347
<i>Raluca-Diana Petre, Titus Zaharia</i>	
A Hybrid Method for Contrast Enhancement	352
<i>Taraneh Najafi, Farzad Zargari</i>	
Continuous Subjective Quality Evaluation of Terrestrial Broadcast Video	356
<i>Stefan Gauss, Thomas Muller, Juergen Wuenschmann, Albrecht Rothermel</i>	
Second Screen TV Synchronization	361
<i>Christopher Howson, Eric Gautier, Philippe Gilberton, Anthony Laurent, Yvon Legallais</i>	
A Full-Duplex hands-Free Videophone Add-on Device for Digital Television Sets	366
<i>Ivan Kastelan, Mihajlo Katona, Istvan Papp, Mile Davidovic, Ivan Resetar</i>	
Efficient and Scalable Open-source JPIP Server for Streaming of Large Volumes of Image Data	370
<i>J. P. Garcia-Ortiz, C. Martin, V. G. Ruiz, J. J. Sanchez-Hernandez, I. Garcia, D. Muller</i>	
Author Index	