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Advances in Multimedia Information Processing – PCM 2012

13th Pacific-Rim Conference on Multimedia
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Proceedings

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Message from the General Chairs

On behalf of the Organizing Committee, it is our great pleasure to welcome you to the proceedings of the Pacific-Rim Conference on Multimedia (PCM), held in Singapore during December 4–6, 2012. PCM is a leading international conference for researchers and industry practitioners to share and showcase their new ideas, original research results, and engineering development experiences from all multimedia-related areas.

PCM 2012 was the 13th in the series of PCM conferences which has been held annually since 2000 in various cities across the Pacific regions. This year, the technical program consisted of opening keynote addresses, tutorials, a panel, special sessions, and technical presentations of refereed papers. Particularly, we were honored to have two eminent professors, Henry Fuchs from the University of North Carolina and Tat-Seng Chua from the National University of Singapore, give the keynote lectures. PCM 2012 also offered one best paper prize and one best student paper prize.

We would like to express our sincere gratitude to Weisi Lin for his great service in leading the Technical Program Committee. We would also like to thank the other Program Chairs, Dong Xu and Anthony Ho. We thank the Track Chairs, the reviewers, and the special session organizers whose invaluable efforts and dedication led to the high-quality technical program as well as the tremendous success of PCM 2012.

Special thanks also go to the Special Session Chairs, Shuicheng Yan and Jun-song Yuan, for their untiring efforts in recruiting and selecting the special sessions; the Local Arrangements and Finance Chairs, Chan Hua Vun (Nicholas), and Jun Luo as well as Co-chairs Jialie Shen and Kap-Luk Chan, for their tremendous support; Publication Chairs, Jianxin Wu and Ying He for their painstaking efforts in helping produce the LNCS proceedings; Publicity Co-chair, Yonggang Wen, for managing the conference website; Tutorial Chairs, Liang-Tien Chia and Qing-Ming Huang, for recruiting tutorial speakers; as well as all the other chairs for their help in promoting this conference. We are also grateful to the School of Computer Engineering, Nanyang Technological University, for their great support in administration, registration, and finance matters.

We would like to thank the PCM Steering Committee, especially the former and current PCM Steering Committee Chairs and Vice Chairs, Sun-Yuan Kung, Yong Rui, Ling Guan, and Changsheng Xu, for their encouragement, support, and guidance.

Finally, we would like to express our sincere appreciation to all of the authors and attendees for their contributions to PCM 2012.

Jianfei Cai
Moham Kankanalli
Ming-Ting Sun

Message from the Technical Program Chairs

The Pacific-Rim Conference on Multimedia (PCM) entered its 13th event this year! On behalf of the PCM 2012 Technical Program Committee, we welcome you to the proceedings of the conference.

During the two days of the conference (December 5–6, 2012), the PCM 2012 technical program included two keynote talks. Two parallel oral sessions were presented daily, and a poster session was held in conjunction with lunch each day to maximize the technical exchange and interaction in an informal atmosphere. We designed the conference technical program in such a way that the audience would not miss the keynotes and the panel discussion. PCM 2012 also included two high-quality tutorials on December 4, 2012. Under the leadership of Special Session Co-chairs, Shuicheng Yan (National University of Singapore) and Junsong Yuan (Nanyang Technological University, Singapore), we also had four interesting special sessions with 23 presentations.

PCM 2012 gave two best paper awards including the best paper award and the best student paper award. The awards were determined based on the technical merits of the papers. We congratulate the winners.

This year, we received 106 submissions. Led by three Technical Program Chairs and eight Track Chairs, we conducted a careful paper review. The majority of the papers received three or more independent reviews, with 52% of the papers receiving four or more reviews. These reviews served as basis to select the 59 papers accepted for the main conference. Out of the 59 accepted papers, 30 better quality papers were selected for oral presentation (28% of the total submissions). A selected set of PCM 2012 oral papers will be invited to submit the extended versions of the papers to be reviewed for acceptance into a special issue of *Journal of Signal Processing Systems*. We thank Sun-Yuan Kung for his great support in forming the special issue.

The technical program of PCM 2012 would not have been possible without the dedicated effort of volunteers of the entire PCM 2012 Technical Program Committee and the Organizing Committee. We are most grateful to the authors who have submitted their latest research work to PCM 2012, and the Technical Program Committee members who have contributed significantly to the peer-review process (we have acknowledged the Technical Committee members on the PCM 2012 website). In particular, the PCM 2012 Program Chairs are most grateful to the eight Track Chairs: Tao Mei (Microsoft Research Asia, China), Gang Hua (Stevens Institute of Technology, USA), Toshihiko Yamasaki (Cornell University, USA), Chong-Wah Ngo (City University of Hong Kong, Hong Kong), Stefan Winkler (Advanced Digital Sciences Center, Singapore), Chia-Hung Yeh (National Sun Yat-sen University, Taiwan), Guangming Shi (Xidian University, China), and Jie Liang (Simon Fraser University, Canada), for their hard work, cooperation, and professionalism in organizing individual track reviews.

We would like to express our thanks to the PCM Steering Committee, especially to the Committee Chair, Ling Guan (Ryerson University, Canada), and Vice Chair Changsheng Xu (Chinese Academy of Sciences, China) for their support, guidance, and advice. Last but not least, we would like to express our greatest appreciation for the initiative, support, and supervision of the PCM 2012 General Chairs, Jianfei Cai (Nanyang Technological University), Mohan Kankanhalli (National University of Singapore), and Ming-Ting Sun (University of Washington).

Weisi Lin
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Table of Contents

Multimedia Content Analysis I

Incremental Learning of Patch-Based Bag of Facial Words Representation for Online Face Recognition in Videos	1
<i>Chao Wang, Yunhong Wang, and Zhaoxiang Zhang</i>	
Evaluation of Audio Quality Requirements over Extended Periods of Time Using Long Duration Audiovisual Content	10
<i>Adam Borowiak, Ulrich Reiter, and U. Peter Svensson</i>	
Hashing with Cauchy Graph	21
<i>Liang Tao and Horace H.S. Ip</i>	
Multimedia Event Detection Using Segment-Based Approach for Motion Feature	33
<i>Sang Phan, Thanh Duc Ngo, Vu Lam, Son Tran, Duy-Dinh Le, Duc Anh Duong, and Shin'ichi Satoh</i>	
Robust Feature Bundling	45
<i>Stefan Romberg, Moritz August, Christian X. Ries, and Rainer Lienhart</i>	

Image and Video Processing I

Colorization for Gray Scale Facial Image by Locality-Constrained Linear Coding	57
<i>Yang Liang, Mingli Song, Jiajun Bu, and Chun Chen</i>	
New Eye Contact Correction Using Radial Basis Function for Wide Baseline Videoconference System	68
<i>Xiaozhou Zhou and Pierre Boulanger</i>	
An Integrated Hole-Filling Algorithm for View Synthesis	80
<i>Wenzin Yu, Weichen Wang, Zhengyan Guo, and Satoshi Goto</i>	
A Real-Time On-Chip Algorithm for IMU-Based Gait Measurement	93
<i>Shenggao Zhu, Hugh Anderson, and Ye Wang</i>	
Reducing the Power Consumption of an IMU-Based Gait Measurement System	105
<i>Shenggao Zhu, Hugh Anderson, and Ye Wang</i>	

Video Coding and Multimedia Information Processing I

SSIM-Based End-to-End Distortion Modeling for H.264 Video Coding	117
<i>Yuxia Wang, Yuan Zhang, Rui Lu, and Pamela C. Cosman</i>	
A Videoconferencing-Oriented Hybrid-Domain H.264/SVC to H.264/AVC Spatial Transcoder	129
<i>Lei Sun, Zhenyu Liu, and Takeshi Ikenaga</i>	
Robust Noise Estimation Based on Noise Injection	142
<i>Chongwu Tang, Xiaokang Yang, and Guangtao Zhai</i>	
Image Quality Assessment Based on Improved Structural SIMilarity	153
<i>Jinjian Wu, Fei Qi, and Guangming Shi</i>	
Multi-hypothesis Temporal Prediction Using Template Matching Prediction and Block Motion Compensation for High Efficiency Video Coding	164
<i>Chun-Chi Chen, Wen-Hsiao Peng, and Shih-Chun Chou</i>	

Multimedia Content Analysis II

Leveraging Exemplar and Saliency Model for Image Search Reranking.....	176
<i>Hong Lu, Kai Chen, Guobao Jiang, Renzhong Wei, and Xiangyang Xue</i>	
Real-Time Markerless Hand Gesture Recognition with Depth Camera	186
<i>Shuxin Qin, Xiaoyang Zhu, Haitao Yu, Shuiying Ge, Yiping Yang, and Yongshi Jiang</i>	
Social Tag Enrichment via Automatic Abstract Tag Refinement	198
<i>Zhaoqiang Xia, Jinye Peng, Xiaoyi Feng, and Jianping Fan</i>	
“...It’s Orange and Small, and White Stripes...”* Augmented-Reality System for Fish Species Identification in Aquariums	210
<i>Charles-Henri Quivy and Itsuo Kumazawa</i>	
An Adaptive Non Reference Anchor Array Framework for Distant Speech Recognition	222
<i>Arpit Shukla, Karan Nathwani, and Rajesh M. Hegde</i>	

Video Coding and Multimedia Information Processing II

Real-Time Macroblock Level Bits Allocation for Depth Maps in 3-D Video Coding	232
<i>Jimin Xiao, Tammam Tillo, and Hui Yuan</i>	
Least Square Based View Synthesis Prediction for Multi-view Video Coding	241
<i>Jinhui Hu, Ruimin Hu, Zhongyuan Wang, Mang Duan, Rui Zhong, and Zhen Han</i>	
Zoomable Video Playback on Mobile Devices by Selective Decoding	251
<i>Feipeng Liu and Wei Tsang Ooi</i>	
SSIM-Based Error Resilient Video Coding over Packet-Switched Networks	263
<i>Lei Zhang, Qiang Peng, and Xiao Wu</i>	
De-blocking Filter Design for HEVC and H.264/AVC	273
<i>Muchen Li, Jinjia Zhou, Dajiang Zhou, Xiao Peng, and Satoshi Goto</i>	

Image and Video Processing II

A Local Texture-Constrained Super-Resolution Method	285
<i>Qingjie Liu, Yunhong Wang, and Zhaoxiang Zhang</i>	
Top-Down Saliency by Multi-scale Contextual Pooling	294
<i>Yuan Yuan Qiu, Jun Zhu, Rui Zhang, and Jun Huang</i>	
A Robust Watermarking Scheme Based on Dual Quantization of Wavelet Significant Difference	306
<i>Bin Ma, Yunhong Wang, Chunlei Li, Zhaoxiang Zhang, and Di Huang</i>	
Robust Image Content Authentication Using Perceptual Hashing and Watermarking	315
<i>Li Weng, Rony Darazi, Bart Preneel, Benoît Macq, and Ann Dooms</i>	
A Secure Semi-fragile Self-recoverable Watermarking Algorithm Using Group-Based Wavelet Quantization	327
<i>Chunlei Li, Bin Ma, Yunhong Wang, Di Huang, and Zhaoxiang Zhang</i>	

Image/Video Processing and Analysis

Towards Independent Color Space Selection for Human Skin Detection	337
<i>Tao Xu, Yunhong Wang, and Zhaoxiang Zhang</i>	

A Novel Smart Multi-license Plate Recognition Method	347
<i>Dawei Du, Honggang Qi, and Kui Fan</i>	
Persistent Object Tracking in Road Panoramic Videos	359
<i>Yuan Zhou, Zhong Zhou, Ke Chen, and Wei Wu</i>	
Active Learning for Transferrable Object Classification in Cross-View Traffic Scene Surveillance	369
<i>Zhaoxiang Zhang, Jun Tang, Yuhang Zhao, Yunhong Wang, and Jianyun Liu</i>	
Laplacian-Based Feature Preserving Mesh Simplification	378
<i>Lin Zhang, Zhen Ma, Zhong Zhou, and Wei Wu</i>	
An Image Splicing Detection Based on Interpolation Analysis	390
<i>Rimba W. Ciptasari, Kyung-Hyune Rhee, and Kouichi Sakurai</i>	
A Multimodal Approach for Online Estimation of Subtle Facial Expression	402
<i>Xiaohong Xiang and Mohan S. Kankanhalli</i>	
Just Noticeable Difference for 3D Images with Depth Saliency	414
<i>Rui Zhong, Ruimin Hu, Yi Shi, Zhongyuan Wang, Zhen Han, Lu Liu, and Jinhui Hu</i>	
Improving Image Distance Metric Learning by Embedding Semantic Relations	424
<i>Fang Wang, Shuqiang Jiang, Luis Herranz, and Qingming Huang</i>	
Pose Estimation with Motionlet LLC Coding	435
<i>Li Sun, Mingli Song, Jiajun Bu, and Chun Chen</i>	
Transfer Discriminant-Analysis of Canonical Correlations for View-Transfer Action Recognition	444
<i>Xinxiao Wu, Cuiwei Liu, and Yunde Jia</i>	
Personalized Celebrity Video Search Based on Cross-Space Mining	455
<i>Zhengyu Deng, Jitao Sang, and Changsheng Xu</i>	
Effective Comic-Like Representations with Embedded Regions of Interest	464
<i>Luis Herranz, Huiying Liu, and Shuqiang Jiang</i>	
Kinect-Based Easy 3D Object Reconstruction	476
<i>Di Xu, Jianfei Cai, Tat Jen Cham, Philip Fu, and Juyong Zhang</i>	

Video Coding and Multimedia System

Adaptive Rate-Distortion Prediction for Multiple Reference Selection and Inter-mode Decision	484
<i>Tiesong Zhao, Yun Zhang, Sam Kwong, Hanli Wang, and Qian Chen</i>	
A New Rate-Quantization Model for H.264/AVC Low-Delay Rate Control	492
<i>Junhui Hou, Shuai Wan, Zhan Ma, Fuzheng Yang, and Lap-Pui Chau</i>	
Chaos-Based Selective Encryption for AVS Video Coding Standard	501
<i>Oi-Yan Lui, Ching-Hung Yuen, and Kwok-Wo Wong</i>	
Q-CSLBP: Compression of CSLBP Descriptor	513
<i>Junaid Baber, Shin'ichi Satoh, Nitin Afzulpurkar, and Maheen Bakhtyar</i>	
Efficient Partial Decoding Scheme for Intra Frame in H.264/AVC Stream	522
<i>Dongming Zhang, Yongdong Zhang, Xiaoguang Gu, and Chao Zhou</i>	
Histopathology Image Streaming	534
<i>Manoranjan Mohanty and Wei Tsang Ooi</i>	
Visual Saliency and Distortion Weighting Based Video Quality Assessment	546
<i>Lin Zhu, Li Su, Qingming Huang, and Honggang Qi</i>	
A Resource Scheduling Approach for Media Uploading in Video Data Center	556
<i>Yihong Gao, Huadong Ma, and Haitao Zhang</i>	
Fast Intra Prediction for High Efficiency Video Coding	568
<i>Hao Zhang and Zhan Ma</i>	
A Low Complexity Multiplierless Transform Coding for HEVC	578
<i>Chunxiao Fan, Fu Li, Guangming Shi, Leilei Zhou, and Haizhou Yang</i>	
Efficient DSP Implementation of Fractional-Pixel Interpolation for AVS	587
<i>Zhigang Yang, Shuhong Jiao, and Lutao Liu</i>	
Audio-Based Copy Detection in the Large-Scale Internet Videos	597
<i>Hongliang Bai, Lezi Wang, Chong Huang, Wei Liu, Chengbin Zeng, and Yuan Dong</i>	
Automatic User Preference Elicitation for Music Recommendation	605
<i>R. Srivastava, Sujoy Roy, Tan Dat Nguyen, and Shuicheng Yan</i>	

Interactive Virtual Try-On Based on Real-Time Motion Capture	616
<i>Xiaoyang Zhu, Shuxin Qin, Haitao Yu, Shuiying Ge,</i> <i>Yiping Yang, and Yongshi Jiang</i>	
Distant Speaker Verification Using a Combined Family of MVDR Estimates	628
<i>Bhargava Manevarte, Waqar Ahmad, and Rajesh M. Hegde</i>	

Advanced Image and Video Coding

Spatio-temporal Visual Distortion and Rate Optimization for Video Coding	639
<i>Fangzhen Hu, Li Su, Honggang Qi, and Qingming Huang</i>	
View Synthesis Based on Background Update with Gaussian Mixture Model	651
<i>Chao Yao, Yao Zhao, and Huihui Bai</i>	
Cloud-Based Image Compression via Subband-Based Reconstruction . . .	661
<i>Zhongbo Shi, Xiaoyan Sun, and Feng Wu</i>	
Image Primitive Coding and Visual Quality Assessment	674
<i>Jian Zhang, Siwei Ma, Ruiqin Xiong, Debin Zhao, and Wen Gao</i>	
A Flexible Directional Image Representation Using Pseudo Polar Fourier Transform Based DFBS	686
<i>Siqi Shi, Xuemei Xie, Huihui Lu, Guangming Shi,</i> <i>Yazhong Zhang, and Yongbo Li</i>	

Location-Based Social Media Analysis

Location and Route Tracking in University from Photos without GPS Information	697
<i>Lin Mingxia, Shichang Hu, Li Cuihua, Jin Taisong, and Zou Quan</i>	
Real-Time Viewfinder Composition Assessment and Recommendation to Mobile Photographing	707
<i>Chen Lujun, Yao Hongxun, Sun Xiaoshuai, and Zhang Hongming</i>	
Instance-Level Landmark Labeling via Multi-layer Superpixels	715
<i>Yanyun Qu, Jiangjun Yang, Han Liu, Yi Xie, and Cuihua Li</i>	
Location Based Robust Audio Watermarking Algorithm for Social TV System	726
<i>Di Chang, Xia Zhang, Qiong Liu, Ge Gao, and Yue Wu</i>	

Combining SIFT and Global Features for Web Image Classification	739
<i>Qimin Cheng, Yue Wen, Zheng-Jun Zha, Xihua Chen, and Zhenfeng Shao</i>	

Cross-Media Learning with Structural Priors

An Interactive Semi-supervised Approach for Automatic Image Annotation	748
<i>Yanhui Xiao, Zhenfeng Zhu, Nan Liu, and Yao Zhao</i>	
Cross-Media Semantics Mining Based on Sparse Canonical Correlation Analysis and Relevance Feedback	759
<i>Hong Zhang and Xiaoming Liu</i>	
What Happened Near Big Ben: Event-Driven Landmark Mining from Flickr	769
<i>Weiqing Min, Bing-Kun Bao, and Changsheng Xu</i>	
Image Ranking via Attribute Boosted Hypergraph	779
<i>Zhou Yu, Siliang Tang, Yin Zhang, and Jian Shao</i>	
Structural Context-Aware Cross Media Recommendation	790
<i>Zhenming Yuan, Kai Yu, Jia Zhang, and Hong Pan</i>	
Spherical Soft Assignment: Improving Image Representation in Content-Based Image Retrieval	801
<i>Liefu Ai, Junqing Yu, and Tao Guan</i>	

Efficient Multimedia Analysis and Utilization

Fast Pedestrian Detection Based on Sliding Window Filtering	811
<i>Feidie Liang, Dong Wang, Yang Liu, Youcheng Jiang, and Sheng Tang</i>	
The Research of the Face's Depth Information Generation Technology Based on the Candide Model	823
<i>Jiang Taiping, Zhang Lei, and Zhang Xuefeng</i>	
Action Segmentation in Dance Videos	832
<i>Han Tingting, Yao Hongrun, Sun Xiaoshuai, and Liu Guoyi</i>	
Topology Adaptation Based on Mobile Agent in Unstructured P2P Networks	841
<i>XiangJun Shen, PeiYing Gu, Zheng-Jun Zha, and JiMing Chen</i>	
Accurate Pedestrian Counting System Based on Local Features	850
<i>Yu Peng, Min Xu, Zefeng Ni, Jesse S. Jin, and Suhuai Luo</i>	

Two Dimensional K-SVD for the Analysis Sparse Dictionary 861
 Yunhui Shi, Na Qi, Baocai Yin, and Wenpeng Ding

The Method for Constructing Block Sparse Measurement Matrix Based
on Orthogonal Vectors 872
 Ruizhen Zhao, Zhou Qin, and Jinhui Tang

Author Index 881