

Program at a Glance

| | DEC 1 | DEC 2 | DEC 3 | DEC 4 | | |
|-------|---------------|----------------------------|-----------------------------|---------------|---------------------------|-----------------------|
| 08:00 | REGISTRATION | REGISTRATION | | HALF DAY TOUR | | |
| 08:30 | | OPENING REMARKS | KEYNOTE | | | |
| 08:35 | | PANEL SESSION | | | | |
| 09:00 | MBDA Workshop | Tutorial 1 | Best Paper Session | | Session 5 Special Session | |
| 09:30 | | Coffee Break | | | | |
| 10:30 | | | Coffee Break | | Coffee Break | Poster & Demo Session |
| 10:50 | | Tutorial 1 | Session 1 Video Coding | | | |
| 11:20 | | | | | | |
| 11:50 | | | | | | |
| 12:00 | | | Session 6 People | | | |
| 12:20 | | | | | | |
| 12:30 | LUNCH | LUNCH | LUNCH | | | |
| 12:40 | | | | | | |
| 12:50 | | | | | | |
| 13:50 | Tutorial 2 | Session 2 Annotation | Session 7 Nearest Neighbour | | | |
| 14:00 | | | | | | |
| 14:10 | | | Session 8 Deep Learning | | | |
| 14:50 | | | | | | |
| 15:30 | Coffee Break | Coffee Break | Coffee Break | | | |
| 16:00 | Tutorial 2 | Session 3 Image & Photos 1 | Session 9 Image & Photos 2 | | | |
| 17:00 | | Session 4 Applications | Session 10 Audio | | | |
| 17:30 | | | | | | |
| 18:00 | | | | | | |
| 19:30 | | RECEPTION | BANQUET | | | |

DEC 1, 2014 Tutorials, Workshop

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| Tutorial 1 | 09:00-12:30 |
| Context-Aware Multimedia Retrieval and Delivery Organizers: Yi Yu, SuhuaTang, Jialie Shen | |
| Tutorial 2 | 14:00-17:30 |
| Depth-Based 3D Video Techniques and Systems Organizer: Ce Zhu | |
| MBDA 2014 Workshop | 09:00-12:00 |
| International Workshop on Multimedia Big Data Analytics (MBDA 2014) Organizers: Zheng-Jun Zha, Guo-Jun Qi, Vasileios Mezaris Papers: Food Image Recognition using Deep Convolutional Features Pre-Trained with Food-related Categories <i>Kawano Yoshiyuki and Keiji Yanai</i> Estimating Sentiment Polarity of Web Images Based on User-Generated Tags and SentiWordNet <i>Katsurai Marie</i> An Analysis on Visual Recognizability of Onomatopoeia Using Web Images and DCNN features <i>Shimoda Wataru and Yanai Keiji</i> Generic Object Categorization using Specific Object Recognition Methods with a Large Number of Web Images <i>Akiyama Mizuki, Kawano Yoshiyuki, and Yanai Keiji</i> | |

DEC 2, 2014 Main Conference Day 1

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| Opening Remarks | | 08:00-08:35 |
| Panel Session | | 08:35-09:30 |
| Best Paper Session | | 09:30-10:50 |
| 09:30 – 09:50 | Region-based Interactive Ranking Optimization For Person Re-identification <i>Zheng Wang, Ruimin Hu, Chao Liang, Qingming Leng, and Kaimin Sun</i> | |
| 09:50 – 10:10 | Adaptive Tag Selection for Image Annotation <i>Xixi He, Xirong Li, Gang Yang, Jieping Xu, and Qin Jin</i> | |
| 10:10 – 10:30 | Twitter Food Image Mining and Analysis for One Hundred Kinds of Foods <i>Keiji Yanai and Yoshiyuki Kawano</i> | |
| 10:30 – 10:50 | Improving Color Constancy with Internet Photo Collections <i>Shuai Fang, Chuanpei Zhou, Yang Cao, and Zhengjun Zha</i> | |
| Session 1: Video Coding | | 11:20-12:40 |
| 11:20 – 11:40 | A Background Modelling Scheme Based on High Efficiency Motion Classification for Surveillance Video Coding <i>Pei Liao, Xiaofeng Huang, Huizhu Jia, Kaijin Wei, Binbin Cai, Guoqing Xiang, and Don Xie</i> | |

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| 11:40 – 12:00 | <p>An Adaptive Perceptual Quantization Algorithm based on Block-level JND for Video Coding</p> <p><i>Guoqing Xiang, Xiaodong Xie, Huizhu Jia, Xiaofeng Huang, Jie Liu, Kaijin Wei, Yuanchao Bai, Pei Liao, and Wen Gao</i></p> |
| 12:00 – 12:20 | <p>Improved Prediction Estimation Based H.264 to HEVC Intra Transcoding</p> <p><i>Daxin Guang, Pin Tao, Sichao Song, Lixin Feng, Jiangtao Wen, and Shiqiang Yang</i></p> |
| 12:20 – 12:40 | <p>Unified VLSI Architecture of Motion Vector and Boundary Strength Parameter Decoder for 8K UHD TV HEVC Decoder</p> <p><i>Shihao Wang, Dajiang Zhou, Jianbin Zhou, Takeshi Yoshimura, and Satoshi Goto</i></p> |
| <p>Session 2: Annotation 14:10-15:30</p> | |
| 14:10 – 14:30 | <p>Using label propagation to get confidence map for segmentation</p> <p><i>Haoran Li, Hongxun Yao, and Xiaoshuai Sun</i></p> |
| 14:30 – 14:50 | <p>Image Region Labelling by Exploring Contextual Information of Visual Spatial and Semantic Concepts</p> <p><i>Kai He, Wen Chan, Guangtang Zhu, Lan Lin, and Xiangdong Zhou</i></p> |
| 14:50 – 15:10 | <p>Manifold Regularized Multi-view Feature Selection for Web Image Annotation</p> <p><i>Yangxi Li, Xin Shi, Lingling Tong, Yong Luo, Jinhui Tu, and Xiaobo Zhu</i></p> |
| 15:10 – 15:30 | <p>Semantic Concept Annotation of Consumer Videos at Frame-level Using Audio</p> <p><i>Junwei Liang, Qin Jin, Xixi He, Gang Yang, Jieping Xu, and Xirong Li</i></p> |

Session 3: Image and Photo 1**16:00-17:00**

15:30 – 15:50 **Text Detection in Natural Scene Images with Stroke Width Clustering and Superpixel**

Shuang Liu, Yu Zhou, Yongzheng Zhang, Yipeng Wang, and Weiyao Lin

15:50 – 16:10 **Sketch-Based Retrieval Using Content-Aware Hashing**

Shuang Liang, Long Zhao, Yichen Wei, and Jinyuan Jia

16:10 – 16:30 **Pixel Granularity Template Matching Method For Screen Content Lossless Intra Picture**

Lixin Feng, Pin Tao, Daxin Guang, Jiangtao Wen, and Shiqiang Yang

Session 4: Applications**17:00-18:00**

17:00 – 17:20 **Music Interaction on Mobile Phones**

Wilber Chao, Kuan-Ting Chen, and Yi-Shin Chen

17:20 – 17:40 **Semantically Enhancing Multimedia Lifelog Events**

Peng Wang, Alan Smeaton, and Alessandra Mileo

17:40 – 18:00 **Haar-like and HOG Fusion Based Object Tracking**

Chong Xia, Shui-Fa Sun, Peng Chen, Heng Luo, and Fang-Min Dong

DEC 3, 2014 Main Conference Day 2

| Keynote Talk | | 08:30-09:30 |
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| Mobile Videos With Contextual Geo-Properties Roger Zimmermann (National University of Singapore) | | |
| Session 5: Special Session | | 09:30-10:50 |
| 09:30 – 09:50 | Age Estimation Based on Convolutional Neural Network <i>Chenjing Yan, Congyan Lang, Tao Wang, Xuetao Du, and Chen Zhang</i> | |
| 09:50 – 10:10 | A Curvature Filter and Normal Clustering based Approach to Detecting Cylinder on 3D Medical Model <i>Yuan Gao, Lifang Wu, Yuxin Mao, and Jinqiao Wang</i> | |
| 10:10 – 10:30 | Image Compositing Based on Hierarchical Weighted Blending <i>Huihui Wei and Qimin Cheng</i> | |
| 10:30 – 10:50 | Multifold Concept Relationships Metrics <i>Wenyi Cao, Richang Hong, Meng Wang, and Xiansheng Hua</i> | |
| Poster Session and Demo | | 10:50-11:50 |
| 10:50 – 11:50 | A Comparison between Artificial Neural Network and Cascade-Correlation Neural Network in Concept Classification <i>Yanming Guo, Liang Bai, Songyang Lao, Song Wu, and Michael S. Lew</i> | |

Location-Based Hierarchical Event Summary for Social Media Photos

Weipeng Zhang, Jia Chen, Jie Shen, and Yong Yu

Towards Natural Gestures for Presentation Control using Microsoft Kinect

Boon Yaik Ooi, Chee Siang Wong, Ian KT Tan, and Chee Keong Lee

3D-Spatial-Texture Bilateral Filter for Depth-based 3D Video

Xin Wang, Ce Zhu, Jianhua Zheng, Yongbing Lin, and Yuhua Zhang

A system for parking lot marking detection

Bolan Su and Shijian Lu

Session 6: People

11:50-12:50

11:50 – 12:10

Noise Face Image Hallucination via Data-Driven Local Eigen Transformation

Xiaohui Dong, Ruimin Hu, Junjun Jiang, Zhen Han, Liang Chen, and Ge Gao

12:10 – 12:30

Lip Segmentation Based On Facial Complexion Template

Chenyang Sun, Hong Lu, Wenqiang Zhang, Xiaoxin Qiu, Fufeng Li, and Hongkai Zhang

12:30 – 12:50

Saliency-Based Deformable Model for Pedestrian Detection

Xiao Wang, Jun Chen, Wenhua Fang, Chao Liang, Chunjie Zhang, Kaimin Sun, and Ruimin Hu

| Session 7: Nearest Neighbour | | 13:50-14:50 |
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| 13:50 – 14:10 | Fast Search of Binary Codes with Distinctive Bits <i>Yanping Ma, Hongtao Xie, Zhineng Chen, Qiong Dai, Yinfei Huang, and Guangrong Ji</i> | |
| 14:10 – 14:30 | Data-Dependent Locality Sensitive Hashing <i>Hongtao Xie, Zhineng Chen, Yizhi Liu, Jianlong Tan, and Li Guo</i> | |
| 14:30 – 14:50 | Cosine Distance Metric Learning for Speaker Verification using Large Margin <i>Waquar Ahmad, Harish Karnick, and Rajesh M. Hegde</i> | |
| Session 8: Deep Learning | | 14:50-15:30 |
| 14:50 – 15:10 | Anchor Shot Detection with Deep Neural Network <i>Bailan Feng, Jinfeng Bai, Zhineng Chen, Xiangsheng Huang, and Bo Xu</i> | |
| 15:10 – 15:30 | Adaptation of ANN based Video Stream QoE Prediction Model <i>Jianfeng Deng, Ling Zhang, Jinlong Hu, and Dongli He</i> | |
| Session 9: Image and Photo 2 | | 16:00-17:00 |
| 16:00 – 16:20 | Leveraging Color Harmony and Spatial Context for Aesthetic Assessment of Photographs <i>Hong Lu, Jin Lin, Bohong Yang, Yiyi Chang, Yuefei Guo, and Xiangyang Xue</i> | |
| 16:20 – 16:40 | A Multi-Exposure Fusion Method Based on Locality Properties <i>Yuanchao Bai, Huizhu Jia, Hengjin Liu, Guoqing Xiang, Xiaodong Xie, Ming Jiang, and Wen Gao</i> | |

16:40 – 17:00 **Image Abstraction using Anisotropic Diffusion
Symmetric Nearest Neighbour**

Zoya Shahcheraghi, John See, and Alfian Abdul Halin

Session 10: Audio

17:00-18:00

17:00 – 17:20 **Reduction of Multichannel Sound System Based on
Spherical Harmonics**

*Shanshan Yang, Xiaochen Wang, Dengshi Li, Ruimin Hu, and
Weiping Tu*

17:20 – 17:40 **Automatic Multichannel Simplification With Low
Impacts on Sound Pressure at Ears**

*Dengshi Li, Ruimin Hu, Xiaochen Wang, Weiping Tu, and
Shanshan Yang*

17:40 – 18:00 **Acoustic Beamforming With Maximum SNR Criterion
and Efficient Generalized Eigenvector Tracking**

Toshihisa Tanaka and Mitsuaki Shiono