

IEEE TRANSACTIONS ON **MULTIMEDIA**

A PUBLICATION OF
THE IEEE CIRCUITS AND SYSTEMS SOCIETY
THE IEEE SIGNAL PROCESSING SOCIETY
THE IEEE COMMUNICATIONS SOCIETY
THE IEEE COMPUTER SOCIETY



<http://www.signalprocessingsociety.org/tmm/>

JANUARY 2016

VOLUME 18

NUMBER 1

ITMUF8

(ISSN 1520-9210)

EDITORIAL

On Building a Stronger Multimedia Community *C. W. Chen* 1

PAPERS

Audio/Speech/Language Analysis and Synthesis

Animating Still Landscape Photographs Through Cloud Motion Creation *W.-C. Jhou and W.-H. Cheng* 4

Compression and Coding

A View-Level Rate Distortion Model for Multi-View/3D Video
..... *H. Roodaki, Z. Iravani, M. R. Hashemi, and S. Shirmohammadi* 14

Keypoint Encoding for Improved Feature Extraction From Compressed Video at Low Bitrates
..... *J. Chao and E. Steinbach* 25

Knowledge and Semantics Modeling for Multimedia Databases

Image Classification by Selective Regularized Subspace Learning *C. Luo, B. Ni, S. Yan, and M. Wang* 40

Multimedia Search and Retrieval

Context-Aware Hypergraph Modeling for Re-identification and Summarization *S. Sunderrajan and B. S. Manjunath* 51

Deep Aging Face Verification With Large Gaps *L. Liu, C. Xiong, H. Zhang, Z. Niu, M. Wang, and S. Yan* 64

(Contents Continued on Back Cover)



Social and Web Multimedia

Multi-Perspective Cost-Sensitive Context-Aware Multi-Instance Sparse Coding and Its Application to Sensitive Video Recognition *W. Hu, X. Ding, B. Li, J. Wang, Y. Gao, F. Wang, and S. Maybank* 76

Real-Time Communications

Dealing With User Heterogeneity in P2P Multi-Party Video Conferencing: Layered Distribution Versus Partitioned Simulcast *E. Kurdoglu, Y. Liu, and Y. Wang* 90

Wireless and Mobile Multimedia

Energy-Aware and Bandwidth-Efficient Hybrid Video Streaming Over Mobile Networks *S. Almowuena, M. M. Rahman, C.-H. Hsu, A. A. Hassan, and M. Hefeeda* 102

Big Data Analytics On Multimedia Data and Crowd Sourcing For Multimedia Applications

Object Instance Search in Videos via Spatio-Temporal Trajectory Discovery *J. Meng, J. Yuan, J. Yang, G. Wang, and Y.-P. Tan* 116

Multimedia for Personal Applications (Mobile, Wearables, Interactive)

Image Retargeting for Preserving Robust Local Feature: Application to Mobile Visual Search *W. Tan, B. Yan, K. Li, and Q. Tian* 128

ANNOUNCEMENT

IEEE International Conference on Multimedia and Expo 138

Information for Authors 139
