

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



IEEE
COMMUNICATIONS
SOCIETY



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

MARCH 2016

VOLUME 18

NUMBER 3

ITREAE

(ISSN 1520-9210)

PAPERS

Audio/Speech/Language Analysis and Synthesis

- Consistent Coding Scheme for Single-Image Super-Resolution Via Independent Dictionaries W. Yang, Y. Tian, F. Zhou, Q. Liao, H. Chen, and C. Zheng 313
- A Novel Lip Descriptor for Audio-Visual Keyword Spotting Based on Adaptive Decision Fusion P. Wu, H. Liu, X. Li, T. Fan, and X. Zhang 326

Compressed Domain Processing

- Pseudo 2D String Matching Technique for High Efficiency Screen Content Coding L. Zhao, T. Lin, K. Zhou, S. Wang, and X. Chen 339
- Compressed-Sensed-Domain L_1 -PCA Video Surveillance Y. Liu, and D. A. Pados 351

Media Conversion and Transcoding

- Efficient Bit Rate Transcoding for High Efficiency Video Coding L. P. Van, J. D. Praeter, G. V. Wallendaal, S. V. Leuven, J. D. Cock, and R. V. de Walle 364

Compression and Coding

- Neyman-Pearson-Based Early Mode Decision for HEVC Encoding Q. Hu, X. Zhang, Z. Shi, and Z. Gao 379
- A High-Throughput Hardware Design of a One-Dimensional SPIHT Algorithm S. Kim, D. Lee, J.-S. Kim, and H.-J. Lee 392

Image/Video/Graphics Analysis and Synthesis

- CCR: Clustering and Collaborative Representation for Fast Single Image Super-Resolution Y. Zhang, Y. Zhang, J. Zhang, and Q. Dai 405

(Contents Continued on Back Cover)



Multimodal Perception, Integration, and Multisensory Fusion

Efficient Summarization From Multiple Georeferenced User-Generated Videos	Y. Zhang and R. Zimmermann	418
---	----------------------------	-----

Subjective and Objective Quality Assessment, and User Experience

Blind Quality Assessment of Tone-Mapped Images Via Analysis of Information, Naturalness, and Structure		
..... K. Gu, S. Wang, G. Zhai, S. Ma, X. Yang, W. Lin, W. Zhang, and W. Gao		432
QoE Evaluation of Multimedia Services Based on Audiovisual Quality and User Interest		
..... J. Song, F. Yang, Y. Zhou, S. Wan, and H. R. Wu		444

Content Description and Annotation

Semi-Supervised Bi-Dictionary Learning for Image Classification With Smooth Representation-Based Label Propagation	M. Jian and C. Jung	458
A Locality Sensitive Low-Rank Model for Image Tag Completion	X. Li, B. Shen, B.-D. Liu, and Y.-J. Zhang	474

Multimedia Search and Retrieval

A Distance-Computation-Free Search Scheme for Binary Code Databases		
..... J. Song, H. T. Shen, S. J. Wang, Z. Huang, N. Sebe, and J. Wang		484

Social and Web Multimedia

User-Service Rating Prediction by Exploring Social Users, Rating Behaviors	G. Zhao, X. Qian, and X. Xie	496
Joint Inference of Objects and Scenes With Efficient Learning of Text-Object-Scene Relations		
..... B. Wang, D. Lin, H. Xiong, and Y. F. Zheng		507

Multimedia Streaming and Transport

Collaborative Wireless Freeview Video Streaming With Network Coding		
..... B. Zhang, Z. Liu, S.-H. G. Chan, and G. Cheung		521

CORRESPONDENCE

Compression and Coding

Hybrid Zero Block Detection for High Efficiency Video Coding . . .	H. Fan, R. Wang, L. Ding, X. Xie, H. Jia, and W. Gao	537
--	--	-----

ANNOUNCEMENTS

IEEE TRANSACTIONS ON MULTIMEDIA 2016 Prize Paper Award		544
IEEE TRANSACTIONS ON MULTIMEDIA Special Issue on Visualization and Visual Analytics for Multimedia		545
Introducing IEEE Collabratec		546

Information for Authors		547
-----------------------------------	--	-----
