

IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY

A PUBLICATION OF THE IEEE CIRCUITS AND SYSTEMS SOCIETY



WWW.IEEE-CAS.ORG

JUNE 2016

VOLUME 26

NUMBER 6

ITCTEM

(ISSN 1051-8215)

PAPERS

Image/Video Processing

A Perception-Based Hybrid Model for Video Quality Assessment	<i>F. Zhang and D. R. Bull</i>	1017
Hybrid Distortion Ranking Tuned Bitstream-Layer Video Quality Assessment	<i>Z. Chen, N. Liao, X. Gu, F. Wu, and G. Shi</i>	1029
No-Reference Video Quality Assessment With 3D Shearlet Transform and Convolutional Neural Networks	<i>Y. Li, L.-M. Po, C.-H. Cheung, X. Xu, L. Feng, F. Yuan, and K.-W. Cheung</i>	1044

Image/Video Analysis and Computer Vision

Multicamera Joint Video Synopsis	<i>J. Zhu, S. Liao, and S. Z. Li</i>	1058
Discovering Primary Objects in Videos by Saliency Fusion and Iterative Appearance Estimation	<i>J. Yang, G. Zhao, J. Yuan, X. Shen, Z. Lin, B. Price, and J. Brandt</i>	1070
Coupling Reranking and Structured Output SVM Co-Train for Multitarget Tracking	<i>Y. Xu, L. Qin, and Q. Huang</i>	1084

Image/Video Compression

Efficient Quantization Based on Rate-Distortion Optimization for Video Coding	<i>T.-Y. Huang and H. H. Chen</i>	1099
Efficient Synthesis-Based Depth Map Coding in AVC-Compatible 3D Video Coding	<i>J. Y. Lee and H. W. Park</i>	1107

Image/Video Communication

Adaptive Hybrid Digital-Analog Video Transmission in Wireless Fading Channel	<i>X. Zhao, H. Lu, C. W. Chen, and J. Wu</i>	1117
A Location-Wise Predetermined Deployment for Optimizing Lifetime in Visual Sensor Networks	<i>S. Halder and A. Ghosal</i>	1131
Adaptive Layer Switching Algorithm Based on Buffer Underflow Probability for Scalable Video Streaming Over Wireless Networks	<i>S. Chen, J. Yang, Y. Ran, and E. Yang</i>	1146

Image/Video Storage

Robust Feature Matching in Long-Running Poor-Quality Videos	<i>C. Henderson and E. Izquierdo</i>	1161
---	--------------------------------------	------

(Contents Continued on Back Cover)

(Contents Continued from Front Cover)

Image/Video Hardware/Software Systems

FPGA Design and Implementation of Kinect-Like Depth Sensing	J. Wang, Z. Xiong, Z. Wang, Y. Zhang, and F. Wu	1175
A Novel Hardware Architecture of the Lucas–Kanade Optical Flow for Reduced Frame Memory Access	H.-S. Seong, C. E. Rhee, and H.-J. Lee	1187
