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Nota di contenuto	Multimedia Content Analysis I Incremental Learning of Patch-Based Bag of Facial Words Representation for Online Face Recognition in Videos -- Evaluation of Audio Quality Requirements over Extended Periods of Time Using Long Duration Audiovisual Content -- Hashing with Cauchy Graph.-Multimedia Event Detection Using Segment- Based Approach for Motion Feature -- Robust Feature Bundling -- Image and Video Processing I -- Colorization for Gray Scale Facial Image by Locality-

Constrained Linear Coding -- New Eye Contact Correction Using Radial Basis Function for Wide Baseline Videoconference System -- An Integrated Hole-Filling Algorithm for View Synthesis -- A Real-Time On-Chip Algorithm for IMU-Based Gait Measurement -- Reducing the Power Consumption of an IMU- Based Gait Measurement System -- Video Coding and Multimedia Information Processing ISSIM-Based End-to-End Distortion Modeling for H.264 Video Coding -- A Videoconferencing-Oriented Hybrid-Domain H.264/SVC to H.264/AVC Spatial Transcoder -- Robust Noise Estimation Based on Noise Injection.-Image Quality Assessment Based on Improved Structural SIMilarity -- Multi-hypothesis Temporal Prediction Using Template MatchingPrediction and Block Motion Compensation for High Efficiency Video Coding.-Multimedia Content Analysis II Leveraging Exemplar and Saliency Model for Image Search Reranking -- Real-Time Markerless Hand Gesture Recognition with Depth Camera.-Social Tag Enrichment via Automatic Abstract Tag Refinement -- “...It’s Orange and Small, and White Stripes...”* Augmented-Reality -- System for Fish Species Identification in Aquariums -- An Adaptive Non Reference Anchor Array Framework for Distant Speech Recognition -- Video Coding and Multimedia Information Processing II -- Real-Time Macroblock Level Bits Allocation for Depth Maps in 3-D Video Coding -- Least Square Based View Synthesis Prediction for Multi-view Video Coding -- Zoomable Video Playback on Mobile Devices by Selective Decoding -- SSIM-Based Error Resilient Video Coding over Packet-Switched Networks -- De-blocking Filter Design for HEVC and H.264/AVC -- Image and Video Processing II A Local Texture-Constrained Super-Resolution Method -- Top-Down Saliency by Multi-scale Contextual Pooling -- A Robust Watermarking Scheme Based on Dual Quantization of Wavelet Significant Difference.-Robust Image Content Authentication Using Perceptual Hashing and Watermarking -- A Secure Semi-fragile Self-recoverable Watermarking Algorithm Using Group-Based Wavelet Quantization -- Image/Video Processing and Analysis Towards Independent Color Space Selection for Human Skin Detection -- A Novel Smart Multi-license Plate Recognition Method.-Persistent Object Tracking in Road Panoramic Videos -- Active Learning for Transferrable Object Classification in Cross- View Traffic Scene Surveillance -- Laplacian-Based Feature Preserving Mesh Simplification -- An Image Splicing Detection Based on Interpolation Analysis -- A Multimodal Approach for Online Estimation of Subtle Facial Expression -- Just Noticeable Difference for 3D Images with Depth Saliency -- Improving Image Distance Metric Learning by Embedding Semantic Relations -- Pose Estimation with Motionlet LLC Coding -- Transfer Discriminant-Analysis of Canonical Correlations for View-Transfer Action Recognition -- Personalized Celebrity Video Search Based on Cross-Space Mining -- Effective Comic-Like Representations with Embedded Regions of Interest.-Kinect-Based Easy 3D Object Reconstruction -- Video Coding and Multimedia System -- Adaptive Rate-Distortion Prediction for Multiple Reference Selection and Inter-mode Decision -- A New Rate-Quantization Model for H.264/AVC Low-Delay Rate Control.-Chaos-Based Selective Encryption for AVS Video Coding Standard.-Q-CSLBP: Compression of CSLBP Descriptor -- Efficient Partial Decoding Scheme for Intra Frame in H.264/AVC Stream.-Histopathology Image Streaming -- Visual Saliency and Distortion Weighting Based Video Quality Assessment -- A Resource Scheduling Approach for Media Uploading in Video Data Center -- Fast Intra Prediction for High Efficiency Video Coding -- A Low Complexity Multiplierless Transform Coding for HEVC -- Efficient DSP Implementation of Fractional-Pixel Interpolation for AVS -- Audio-Based Copy Detection in the Large-

Scale Internet Videos -- Automatic User Preference Elicitation for Music Recommendation -- Interactive Virtual Try-On Based on Real-Time Motion Capture -- Distant Speaker Verification Using a Combined Family of MVDR Estimates -- Advanced Image and Video Coding.-Spatio-temporal Visual Distortion and Rate Optimization for Video Coding -- View Synthesis Based on Background Update with Gaussian Mixture Model -- Cloud-Based Image Compression via Subband-Based Reconstruction -- Image Primitive Coding and Visual Quality Assessment -- A Flexible Directional Image Representation Using Pseudo Polar Fourier Transform Based DFBs -- Location-Based Social Media Analysis Location and Route Tracking in University from Photos without GPS Information -- Real-Time Viewfinder Composition Assessment and Recommendation to Mobile Photographing -- Instance-Level Landmark Labeling via Multi-layer Superpixels -- Location Based Robust Audio Watermarking Algorithm for Social TV System -- Combining SIFT and Global Features for Web Image Classification.-Cross-Media Learning with Structural Priors An Interactive Semi-supervised Approach for Automatic Image Annotation -- Cross-Media Semantics Mining Based on Sparse Canonical Correlation Analysis and Relevance Feedback.-What Happened Near Big Ben: Event-Driven Landmark Mining from Flickr -- Image Ranking via Attribute Boosted Hypergraph -- Structural Context-Aware Cross Media Recommendation.-Spherical Soft Assignment: Improving Image Representation in Content-Based Image Retrieval -- Efficient Multimedia Analysis and Utilization Fast Pedestrian Detection Based on Sliding Window Filtering -- The Research of the Face’s Depth Information Generation Technology Based on the Candide Model -- Action Segmentation in Dance Videos -- Topology Adaptation Based on Mobile Agent in Unstructured P2P Networks.-Accurate Pedestrian Counting System Based on Local Features -- Two Dimensional K-SVD for the Analysis Sparse Dictionary -- The Method for Constructing Block Sparse Measurement Matrix Based on Orthogonal Vectors.

Sommario/riassunto

This book constitutes the proceedings of the 13th Pacific Rim Conference on Multimedia, held in Singapore during December 4-6, 2012. The 59 revised full papers presented were carefully reviewed and selected from 106 submissions for the main conference and are accompanied by 23 presentations of 4 special sessions. The papers are organized in topical sections on multimedia content analysis, image and video processing, video coding and multimedia information processing, image/video processing and analysis, video coding and multimedia system, advanced image and video coding, cross media learning with structural priors, as well as efficient multimedia analysis and utilization.