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This book constitutes the refereed proceedings of the 7th Pacific Rim Conference on Multimedia, PCM 2006, held in Hangzhou, China in November 2006.   The 116 revised papers presented were carefully reviewed and selected from a total of 755 submissions. The papers cover a wide range of topics, including all aspects of multimedia, both technical and artistic perspectives and both theoretical and practical issues. Fields addressed are multimedia processing and retrieval, multimedia system support and networking, multimedia security, as well as multimedia tools, end-systems and applications.

Expressive Speech Recognition and Synthesis as Enabling Technologies for Affective Robot-Child CommunicationEmbodied Conversational Agents: Computing and Rendering RealisticDBN Based Models for Audio-Visual Speech Analysisand RecognitionAn Extensive Method to Detect the Image Digital Watermarking Based on the Known TemplateFast Mode Decision Algorithm in H.263+/H.264 Intra TranscoderBinary Erasure Codes for Packet Transmission Subject to Correlated ErasuresImage Desynchronization for Secure Collusion-Resilient Fingerprint in Compression DomainA Format-Compliant Encryption Framework for JPEG 2000 Image Code-Streams in Broadcasting ApplicationsEuclidean Distance Transform of Digital Images in Arbitrary DimensionsJPEG 2000 Steganography Possibly Secure Against Histogram-Based AttackPerceptual Depth Estimation from a Single 2D Image Based on Visual Perception TheoryA System for Generating Personalized Virtual News Image Fingerprinting Scheme for Print-and-Capture Model16×16 Integer Cosine Transform for HD Video CodingHeegard-Berger Video Coding Using LMMSE EstimatorReal-Time BSD-Driven Adaptation Along the Temporal Axis of H.264/AVC BitstreamsOptimal Image Watermark DecodingDiagonal Discrete Cosine Transforms for Image CodingSynthesizing Variational Direction and Scale Texture on Planar RegionFast Content-Based Image Retrieval Based on Equal-Average K-Nearest-Neighbor Search SchemesCharacterizing User Behavior to Improve Quality of Streaming Service over P2P NetworksInteracting Activity Recognition Using Hierarchical Durational-State Dynamic Bayesian Network……

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