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Nota di contenuto	MPEG-7 Audio and Beyond; Contents; List of Acronyms; List of Symbols; 1 Introduction; 1.1 Audio Content Description; 1.2 MPEG-7 Audio Content Description - An Overview; 1.2.1 MPEG-7 Low-Level Descriptors; 1.2.2 MPEG-7 Description Schemes; 1.2.3 MPEG-7 Description Definition Language (DDL); 1.2.4 BiM (Binary Format for MPEG-7); 1.3 Organization of the Book; 2 Low-Level Descriptors; 2.1 Introduction; 2.2 Basic Parameters and Notations; 2.2.1 Time Domain; 2.2.2 Frequency Domain; 2.3 Scalable Series; 2.3.1 Series of Scalars; 2.3.2 Series of Vectors; 2.3.3 Binary Series; 2.4 Basic Descriptors 2.4.1 Audio Waveform2.4.2 Audio Power; 2.5 Basic Spectral Descriptors; 2.5.1 Audio Spectrum Envelope; 2.5.2 Audio Spectrum Centroid; 2.5.3 Audio Spectrum Spread; 2.5.4 Audio Spectrum Flatness; 2.6 Basic Signal Parameters; 2.6.1 Audio Harmonicity; 2.6.2 Audio Fundamental Frequency; 2.7 Timbral Descriptors; 2.7.1 Temporal

Timbral: Requirements; 2.7.2 Log Attack Time; 2.7.3 Temporal Centroid; 2.7.4 Spectral Timbral: Requirements; 2.7.5 Harmonic Spectral Centroid; 2.7.6 Harmonic Spectral Deviation; 2.7.7 Harmonic Spectral Spread; 2.7.8 Harmonic Spectral Variation; 2.7.9 Spectral Centroid

2.8 Spectral Basis Representations2.9 Silence Segment; 2.10 Beyond the Scope of MPEG-7; 2.10.1 Other Low-Level Descriptors; 2.10.2 Mel-Frequency Cepstrum Coefficients; References; 3 Sound Classification and Similarity; 3.1 Introduction; 3.2 Dimensionality Reduction; 3.2.1 Singular Value Decomposition (SVD); 3.2.2 Principal Component Analysis (PCA); 3.2.3 Independent Component Analysis (ICA); 3.2.4 Non-Negative Factorization (NMF); 3.3 Classification Methods; 3.3.1 Gaussian Mixture Model (GMM); 3.3.2 Hidden Markov Model (HMM); 3.3.3 Neural Network (NN); 3.3.4 Support Vector Machine (SVM)

3.4 MPEG-7 Sound Classification3.4.1 MPEG-7 Audio Spectrum Projection (ASP) Feature Extraction; 3.4.2 Training Hidden Markov Models (HMMs); 3.4.3 Classification of Sounds; 3.5 Comparison of MPEG-7 Audio Spectrum Projection vs. MFCC Features; 3.6 Indexing and Similarity; 3.6.1 Audio Retrieval Using Histogram Sum of Squared Differences; 3.7 Simulation Results and Discussion; 3.7.1 Plots of MPEG-7 Audio Descriptors; 3.7.2 Parameter Selection; 3.7.3 Results for Distinguishing Between Speech, Music and Environmental Sound; 3.7.4 Results of Sound Classification Using Three Audio Taxonomy Methods

3.7.5 Results for Speaker Recognition3.7.6 Results of Musical Instrument Classification; 3.7.7 Audio Retrieval Results; 3.8 Conclusions; References; 4 Spoken Content; 4.1 Introduction; 4.2 Automatic Speech Recognition; 4.2.1 Basic Principles; 4.2.2 Types of Speech Recognition Systems; 4.2.3 Recognition Results; 4.3 MPEG-7 SpokenContent Description; 4.3.1 General Structure; 4.3.2 SpokenContentHeader; 4.3.3 SpokenContentLattice; 4.4 Application: Spoken Document Retrieval; 4.4.1 Basic Principles of IR and SDR; 4.4.2 Vector Space Models; 4.4.3 Word-Based SDR

4.4.4 Sub-Word-Based Vector Space Models

Sommario/riassunto

Advances in technology, such as MP3 players, the Internet and DVDs, have led to the production, storage and distribution of a wealth of audio signals, including speech, music and more general sound signals and their combinations. MPEG-7 audio tools were created to enable the navigation of this data, by providing an established framework for effective multimedia management. *MPEG-7 Audio and Beyond: Audio Content Indexing and Retrieval* is a unique insight into the technology, covering the following topics: the fundamentals of MPEG-7 audio, principally low-level descriptors and soun

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Hearing on H.R. 2098 and H.R. 2989 : hearing before the Subcommittee on National Parks and Public Lands of the Committee on Resources, House of Representatives, One Hundred Fifth Congress, second session, on H.R. 2098, to establish the National Cave and Karst Research Institute ... H.R. 2989, to direct the Secretary of the Interior to convey to the St. Jude's Ranch for Children, Nevada, approximately 40 acres of land ... February 5, 1998, Washington, DC

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