Multimedia security: the good, the bad, and the ugly p. 1
Generation and evaluation of brute-force signature forgeries p. 2
The quality of fingerprint scanners and its impact on the accuracy of fingerprint recognition algorithms p. 10
Correlation-based similarity between signals for speaker verification with limited amount of speech data p. 17
Human face identification from video based on frequency domain asymmetry representation using hidden Markov models p. 26
Utilizing independence of multimodal biometric matchers p. 34
Discreet signaling: from the Chinese emperors to the Internet p. 42
Real-time steganography in compressed video p. 43
A feature selection methodology for steganalysis p. 49
Multiple message embedding using DCT-based Mod4 steganographic method p. 57
SVD adapted DCT domain DC subband image watermarking against watermark ambiguity p. 66
3D animation watermarking using PositionInterpolator p. 74
Color images watermarking based on minimization of color differences p. 82
Improved pixel-wise masking for image watermarking p. 90
Additive vs. image dependent DWT-DCT based watermarking p. 98
A robust blind audio watermarking using distribution of sub-band signals p. 106
Dirty-paper writing based on LDPC codes for data hiding p. 114
Key agreement protocols based on the center weighted jacket matrix as a symmetric co-cyclic matrix p. 121
A hardware-implemented truly random key generator for secure biometric authentication systems p. 128
Kernel fisher LPP for face recognition p. 136
Tensor factorization by simultaneous estimation of mixing factors for robust face recognition and synthesis p. 143
A modified large margin classifier in hidden space for face recognition p. 151
Recognizing two handed gestures with generative, discriminative and ensemble methods via Fisher kernels p. 159
3D head position estimation using a single omnidirectional camera for non-intrusive Iris recognition p. 167
A fast and robust personal identification approach using handprint p. 175
Active appearance model-based facial composite generation with interactive nature-inspired heuristics p. 183
Template matching approach for pose problem in face verification p. 191
PCA and LDA based face recognition using feedforward neural network classifier p. 199
Online writer verification using kanji handwriting p. 207
Image quality measures for fingerprint image enhancement p. 215
A watermarking framework for subdivision surfaces p. 223
Naive Bayes classifier based watermark detection in wavelet transform p. 232
A statistical framework for audio watermark detection and decoding p. 241
Resampling operations as features for detecting LSB replacement and LSB matching in color images p. 249
A blind watermarking for 3-D dynamic mesh model using distribution of temporal wavelet coefficients

Secure data-hiding in multimedia using NMF

Unsupervised news video segmentation by combined audio-video analysis

Coarse-to-fine textures retrieval in the JPEG 2000 compressed domain for fast browsing of large image databases

Labeling complementary local descriptors behavior for video copy detection

Motion-based segmentation of transparent layers in video sequences

From partition trees to semantic trees

A comparison framework for 3D object classification methods

Density-based shape descriptors for 3D object retrieval

ICA based normalization of 3D objects

3D facial feature localization for registration

Paper retrieval based on specific paper features: chain and laid lines

Feature selection for paintings classification by optimal tree pruning

3D data retrieval for pottery documentation

Multimedia content-based indexing and search: challenges and research directions

A framework for dialogue detection in movies

Music driven real-time 3D concert simulation

High-level description tools for humanoids

Content adaptation capabilities description tool for supporting extensibility in the CAIN framework

Automatic cartoon image re-authoring using SOFM

JPEG-2000 compressed image retrieval using partial entropy decoding

Galois' lattice for video navigation in a DBMS

MPEG-7 based music metadata extensions for traditional Greek music retrieval

Recognizing events in an automated surveillance system

Support vector regression for surveillance purposes

An area-based decision rule for people-counting systems

Human action classification using SVM-o2K classifier on motion features

Robust feature extraction of speech via noise reduction in autocorrelation domain

Musical sound recognition by active learning PNN

Post-processing for enhancing target signal in frequency domain blind source separation

Role of statistical dependence between classifier scores in determining the best decision fusion rule for improved biometric verification

A novel 2D Gabor wavelets window method for face recognition

An extraction technique of optimal interest points for shape-based image classification

Affine invariant gradient based shape descriptor

Spatial morphological covariance applied to texture classification
Emotion assessment: arousal evaluation using EEG's and peripheral physiological signals p. 530
Learning multi-modal dictionaries: application to audiovisual data p. 538
Semantic fusion for biometric user authentication as multimodal signal processing p. 546

Study of applicability of virtual users in evaluating multimodal biometrics p. 554
Accelerating depth image-based rendering using GPU p. 562
A surface deformation framework for 3D shape recovery p. 570
Fast outlier rejection by using parallax-based rigidity constraint for epipolar geometry estimation p. 578
Interactive multi-view video delivery with view-point tracking and fast stream switching p. 586
A multi-imager camera for variable-definition video (XDTV) p. 594
On semi-supervised learning p. 602
Secure transmission of video on an end system multicast using public key cryptography p. 603

DRM architecture for mobile VOD services p. 611
An information filtering approach for the page zero problem p. 619
A novel model for the print-and-capture channel in 2D bar codes p. 627
On feature extraction for spam e-mail detection p. 635
Symmetric interpolatory framelets and their erasure recovery properties p. 643
A scalable presentation format for multichannel publishing based on MPEG-21 digital items p. 650

X3D Web service using 3D image mosaicing and location-based image indexing p. 658
Adaptive hybrid data broadcast for wireless converged networks p. 667
Multimedia annotation of geo-referenced information sources p. 675
Video synthesis with high spatio-temporal resolution using spectral fusion p. 683
Content-aware bit allocation in scalable multi-view video coding p. 691
Disparity-compensated picture prediction for multi-view video coding p. 699
Reconstruction of computer generated holograms by spatial light modulators p. 706
Iterative super-resolution reconstruction using modified subgradient method p. 714
A comparison on textured motion classification p. 722

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.