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Nota di contenuto	Face Processing and Recognition -- Illumination Invariant Face Recognition by Non-Local Smoothing -- Manifold Learning for Video-to-Video Face Recognition -- MORPH: Development and Optimization

of a Longitudinal Age Progression Database -- Verification of Aging Faces Using Local Ternary Patterns and Q-Stack Classifier -- Voice Analysis and Modeling -- Recognition of Emotional State in Polish Speech - Comparison between Human and Automatic Efficiency -- Harmonic Model for Female Voice Emotional Synthesis -- Anchor Model Fusion for Emotion Recognition in Speech -- Multimodal Interaction -- Audiovisual Alignment in a Face-to-Face Conversation Translation Framework -- Maximising Audiovisual Correlation with Automatic Lip Tracking and Vowel Based Segmentation -- Visual Context Effects on the Perception of Musical Emotional Expressions -- Eigenfeatures and Supervectors in Feature and Score Fusion for SVM Face and Speaker Verification -- Face and Expression Recognition -- Facial Expression Recognition Using Two-Class Discriminant Features -- A Study for the Self Similarity Smile Detection -- Analysis of Head and Facial Gestures Using Facial Landmark Trajectories -- Combining Audio and Video for Detection of Spontaneous Emotions -- Face Recognition Using Wireframe Model Across Facial Expressions -- Body and Gait Recognition -- Modeling Gait Using CPG (Central Pattern Generator) and Neural Network -- Fusion of Movement Specific Human Identification Experts -- CBIR over Multiple Projections of 3D Objects -- Biometrics beyond the Visible Spectrum: Imaging Technologies and Applications -- Poster Session -- Formant Based Analysis of Spoken Arabic Vowels -- Key Generation in a Voice Based Template Free Biometric Security System -- Extending Match-On-Card to Local Biometric Identification -- A New Fingerprint Matching Algorithm Based on Minimum Cost Function -- Invariant Fourier Descriptors Representation of Medieval Byzantine Neume Notation -- Bio-Inspired Reference Level Assigned DTW for Person Identification Using Handwritten Signatures -- Pressure Evaluation in On-Line and Off-Line Signatures -- Confidence Partition and Hybrid Fusion in Multimodal Biometric Verification System -- Multi-biometric Fusion for Driver Authentication on the Example of Speech and Face -- Multi-modal Authentication Using Continuous Dynamic Programming -- Biometric System Verification Close to "Real World" Conditions -- Developing HEO Human Emotions Ontology -- Common Sense Computing: From the Society of Mind to Digital Intuition and beyond -- On Development of Inspection System for Biometric Passports Using Java -- Handwritten Signature On-Card Matching Performance Testing -- Classification Based Revocable Biometric Identity Code Generation -- Vulnerability Assessment of Fingerprint Matching Based on Time Analysis -- A Matching Algorithm Secure against the Wolf Attack in Biometric Authentication Systems -- A Region-Based Iris Feature Extraction Method Based on 2D-Wavelet Transform -- A Novel Contourlet Based Online Fingerprint Identification -- Fake Finger Detection Using the Fractional Fourier Transform -- Comparison of Distance-Based Features for Hand Geometry Authentication -- A Comparison of Three Kinds of DP Matching Schemes in Verifying Segmental Signatures -- Ergodic HMM-UBM System for On-Line Signature Verification -- Improving Identity Prediction in Signature-based Unimodal Systems Using Soft Biometrics.

Sommario/riassunto

This book constitutes the research papers presented at the Joint 2101 & 2102 International Conference on Biometric ID Management and Multimodal Communication. BioID_MultiComm'09 is a joint International Conference organized cooperatively by COST Actions 2101 & 2102. COST 2101 Action is focused on "Biometrics for Identity Documents and Smart Cards (BIDS)", while COST 2102 Action is entitled "Cross-Modal Analysis of Verbal and Non-verbal Communication". The aim of COST 2101 is to investigate novel technologies for unsupervised

multimodal biometric authentication systems using a new generation of biometrics-enabled identity documents and smart cards. COST 2102 is devoted to develop an advanced acoustical, perceptual and psychological analysis of verbal and non-verbal communication signals originating in spontaneous face-to-face interaction, in order to identify algorithms and automatic procedures capable of recognizing human emotional states.
