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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1206
Disciplina	006.4
Soggetti	Management information systems
	Computer science
	Pattern perception
	Optical data processing
	Operating systems (Computers)
	Artificial intelligence
	Computers and civilization
	Management of Computing and Information Systems
	Pattern Recognition
	Image Processing and Computer Vision
	Operating Systems
	Artificial Intelligence
	Computers and Society
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Robust eye centre extraction using the Hough Transform -- Localising facial features with matched filters -- Shape normalisation for face recognition -- Generalized likelihood ratio-based face detection and extraction of mouth features -- Tracking facial feature points with Gabor wavelets and shape models -- Face detection by direct convexity estimation -- Analysis and encoding of lip movements -- Lip-shape dependent face verification -- Statistical chromaticity models for lip

tracking with B-splines -- A fully automatic approach to facial feature detection and tracking -- Automatic Video-based Person Authentication using the RBF network -- Using gait as a biometric, via phase-weighted magnitude spectra -- Identity authentication using fingerprints -- An algorithm for recognising walkers -- Metrological remote identification of a human body by stereoscopic camera techniques -- Discriminant analysis for recognition of human face images -- Image representations for visual learning -- Automatic profile identification -- Recognition of facial images with low resolution using a Hopfield memory model -- Exclusion of photos and new segmentation algorithms for the automatic face recognition -- Face authentication using morphological dynamic link architecture -- Non-intrusive person authentication for access control by visual tracking and face recognition -- Profile authentication using a chamfer matching algorithm -- Subband approach for automatic speaker recognition: Optimal division of the frequency domain -- Optimizing feature set for speaker verification -- VQ score normalisation for text-dependent and text-independent speaker recognition -- A two stage procedure for phone based speaker verification -- Speech/speaker recognition using a HMM/GMM hybrid model -- Recent advances in speaker recognition -- Speaker identification using harmonic structure of LP-residual spectrum -- A speaker identification agent -- Text-independent speaker identification based on spectral weighting functions -- Parameter discrimination analysis in speaker identification using self organizing map -- Text independent speaker verification using multiple-state predictive neural networks -- "Watch these lips" — Adding to acoustic signals to improve speaker recognition -- Expert conciliation for multi modal person authentication systems by Bayesian statistics -- SESAM: A biometric person identification system using sensor fusion -- Person authentication by fusing face and speech information -- Acoustic-labial speaker verification -- Combining evidence in multimodal personal identity recognition systems -- A viseme-based approach to labiometrics for automatic lipreading -- Development of an audio-visual database system for human identification -- Video compression and person authentication -- Lock-control system using face identification -- A system for automatic face recognition -- Time Encoded Signal Processing and Recognition for reduced data, high performance Speaker Verification architectures -- The CAVE speaker verification project — Experiments on the YOHO and SESP corpora -- The FERET September 1996 database and evaluation procedure -- The M2VTS multimodal face database (Release 1.00) -- One-shot 3D-shape and texture acquisition of facial data -- A multiple-baseline stereo for precise human face acquisition -- User perspectives on the security of access data, operator handover procedures and 'insult rate' for speaker verification in automated telephone services -- Integrating face recognition into security systems.

Sommario/riassunto

This book constitutes the refereed proceedings of the First International Conference on Audio- and Video-based Biometric Person Authentication, AVBPA'97, held in Crans-Montana, Switzerland, in March 1997. The 49 revised papers presented were carefully reviewed and selected by the program committee for inclusion in the book; also included are four invited contributions. The papers are organized in sections on facial features localisation, lip and facial motion, visual non-face biometrics, face-based authentication, text-dependent speaker authentication, text-independent authentication, audio-video features and fusion, and systems and applications.