

2009 First IEEE International Conference on Biometrics, Identity and Security

(BKS 2009)

**Tampa, Florida, USA
22 – 23 September 2009**



**IEEE Catalog Number: CFP09BID-PRT
ISBN: 978-1-4244-5276-7**

TABLE OF CONTENTS

FINGERPRINT BIOMETRICS

Fingerprint Liveness Detection Based on Quality Measures	1
<i>J. Galbally, F. Alonso-Fernandez, J. Fierrez, J. Ortega-Garcia</i>	
Data Acquisition and Quality Analysis of 3-Dimensional Fingerprints	9
<i>Y. Wang, Q. Hao, A. Fatehpuria, L.G. Hassebrook, D.L. Lau</i>	
Multiple Fingers Synchronization Used for Device Mutual Authentication	18
<i>G. Rose, Q. Li, L. Xiao</i>	

SECURITY/PRIVACY TECHNOLOGY

Dynamic Biometrics: The Case for a Real-Time Solution to the Problem of Access Control, Privacy and Security	26
<i>S.J. Simske</i>	
Multi-matcher Dynamic Signature Recognition with Protected and Renewable Templates	36
<i>N/A</i>	

SPEECH/IRIS BIOMETRICS

Iris Recognition Based on SIFT Features	44
<i>F. Alonso-Fernandez, P. Tome-Gonzalez, V. Ruiz-Albacete, J. Ortega-Garcia</i>	

FACE BIOMETRICS

Hill-Climbing Attack to an Eigenface-Based Face Verification System	52
<i>J. Galbally, J. Fierrez, J. Ortega-Garcia, C. McCool, S. Marcel</i>	
Automatic Child-Face Age-Progression Based on Heritability Factors of Familial Faces	58
<i>N/A</i>	
On Matching Digital Face Images Against Scanned Passport Photos	64
<i>N/A</i>	

OTHER MODALITIES

Biometrics with Physical Exercise Using Laser Doppler Vibrometry Measurements of the Carotid Pulse	74
<i>M. Chen, J.A. O'Sullivan, A.D. Kaplan, P. Lai, E.J. Sirevaag, J.W. Rohrbaugh</i>	
Fast Automatic Retinal Vessel Segmentation and Vascular Landmarks Extraction Method for Biometric Applications	80
<i>N/A</i>	
Author Index	