

**2006 Biometrics Symposium:
Special Session on Research at
The Biometric Consortium Conference**

19 - 21 September 2006

Baltimore, MD

TABLE OF CONTENTS

Gait Recognition Through MPCA Plus LDA	1
<i>Haiping Lu, K.N. Plataniotis, A.N. Venetsanopoulos</i>	
Toward A Human-like Similarity Measure For Face Recognition.	7
<i>Behrooz Kamgar-Parsi, S. Krawczyk, E. Lawson, R. Stanchak, Behzad Kamgar-Parsi</i>	
Multi-level Liveness Verification For Face-voice Biometric Authentication.	13
<i>Girija Chetty, Michael Wagner</i>	
Multispectral Fusion For Indoor And Outdoor Face Authentication	19
<i>H. Chang, M. Yi, H. Harishwaran, B. Abidi, A. Koschan, M. Abidi</i>	
Quality Assessment Of Facial Images	25
<i>Rein-Lien Vincent Hsu, Jidnya Shah, Brian Martin</i>	
Measuring Biometric Sample Quality In Terms Of Biometric Information	31
<i>Richard Youmaran, Andy Adler</i>	
Attestation Based Remote Biometric Authentication.	37
<i>Thomas Polon, Samuel Sander</i>	
Using Biometric Verification To Estimate Identification Performance	42
<i>Jens Peter Hube</i>	
3d Touchless Fingerprints: Compatibility With Legacy Rolled Images	48
<i>Yi Chen, Geppy Parziale, Eva Diaz-Santana, Anil K. Jain</i>	
Minutiae-based Structures For A Fuzzy Vault	54
<i>Jason Jeffers, Arathi Arakala</i>	
A Robust Iris Segmentation Procedure For Unconstrained Subject Presentation.	60
<i>Jinyu Zuo, Nathan D. Kalka, Natalia A. Schmid</i>	
Robust Fake Iris Detection Based On Variation Of The Reflectance Ratio Between The Sclera And The Iris	66
<i>Sung Joo Lee, Kang Ryoung Park, Jaihie Kim</i>	
Segmenting Non-ideal Irises Using Geodesic Active Contours.	72
<i>Arun Ross, Samir Shah</i>	
Mouse Curve Biometrics	78
<i>Douglas A. Schulz</i>	
Integrating Analytic And Appearance Attributes For Human Identification From ECG.	84
<i>Yongjin Wang, Konstantinos N. Plataniotis, Dimitrios Hatzinakos</i>	
ECG Biometric Recognition Without Fiducial Detection	90
<i>Konstantinos N. Plataniotis, Dimitrios Hatzinakos, Jimmy K. M. Lee</i>	
Changeable Biometrics For Appearance Based Face Recognition	96
<i>Min Yi Jeong, Chulhan Lee, Jongsun Kim, Jeung-Yeon Choi, Kar-Ann Toh, Jaihie Kim</i>	
A Predictive Model For Gait Recognition	101
<i>Shuichi Enokida, Ryo Shimomoto, Tomohito Wada, Toshiaki Ejima</i>	
Robust Feature-level Multibiometric Classification	107
<i>Ajita Rattani, D. R. Kisku, Manuele Bicego, Massimo Tistarelli</i>	
A Protection Scheme For Moc-enabled Smart Cards	113
<i>Claude Barral, Serge Vaudenay</i>	
A Multimodal Approach For 3d Face Modeling And Recognition Using Deformable Mesh Model.	119
<i>A-Nasser Ansari, Mohamed Abdel-Mottaleb, Mohammad H. Mahoor</i>	
Identification Model For Classifier Combinations.	125
<i>Sergey Tulyakov, Venu Govindaraju</i>	
High Magnification And Long Distance Face Recognition: Database Acquisition, Evaluation, And Enhancement	131
<i>Yi Yao, Besma Abidi, Nathan D. Kalka, Natalia Schmid, Mongi Abidi</i>	
Automatic Tooth Segmentation Using Active Contour Without Edges	137
<i>Samir Shah, Ayman Abaza, Arun Ross, Hany Ammar</i>	
Individual Tensorface Subspaces For Efficient And Robust Face Recognition That Do Not Require Factorization	143
<i>Sung Won Park and Marios Savvides</i>	
How Low Can You Go? Low Resolution Face Recognition Study Using KCFA On FRGC Dataset.	149
<i>Ramzi Abiantun, Marios Savvides, B.V.K. Vijaya Kumar</i>	