

2010 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications

(BIOMS 2010)

**Taranto, Italy
9 September 2010**



**IEEE Catalog Number: CFP1038J-PRT
ISBN: 978-1-4244-6302-2**

TABLE OF CONTENTS

MESSAGE FROM THE CHAIRPERSONS	v
BioMS 2010 ORGANIZERS	vi
BioMS 2010 TECHNICAL PROGRAM COMMITTEE	vi

Thursday, September 9

9:30 AM - 11:00 AM *Session I*

Serial fusion of multi-modal biometric systems	1
Gian Luca Marcialis (University of Cagliari, Italy)	
Paolo Mastinu (University of Cagliari, Italy)	
Fabio Roli (University of Cagliari, Italy)	
An anti-spoofing technique using multiple textural features in fingerprint scanners	8
Emanuela Marasco (University of Naples Federico II ", Italy)	
Carlo Sansone (University of Naples Federico II, Italy)	
Implementing FingerCode-Based Identity Matching in the Encrypted Domain	15
Tiziano Bianchi (University of Firenze, Italy)	
Ruggero Donida Labati (University of Milan, Italy)	
Vincenzo Piuri (University of Milan, Italy)	
Alessandro Piva (University of Florence, Italy)	
Fabio Scotti (University of Milan, Italy)	
Stefano Turchi (University of Florence, Italy)	

11:30 AM - 1:00 PM *Session II*

Performance Evaluation of an Automatic Forensic Speaker Recognition System based on GMM	22
Francesco Beritelli (University of Catania, Italy)	
Andrea Spadaccini (University of Catania, Italy)	
On Combining HMM-based Speaker Verification Classifiers	26
Donato Impedovo (Università degli Studi di Bari, Italy)	
Giuseppe Pirlo (Università degli Studi di Bari, Italy)	
An Improved Biometric Identification System based on Heart Sounds and Gaussian Mixture Models	31
Francesco Beritelli (University of Catania, Italy)	
Andrea Spadaccini (University of Catania, Italy)	

2:00 PM - 3:30 PM *Session III*

Revisiting clustering methods to their application on keystroke dynamics for intruder classification36

Gissel Zamonsky Pedernera (FASTA University, Argentina)
Sebastian Sznur (FASTA University, Argentina)
Gustavo Sorondo Ovando (FASTA University, Argentina)
Sebastián García (FASTA University, Argentina)
Gustavo Meschino (Mar del Plata National University, Argentina)

On the Measurement of Local Stability of Handwriting - An application to Static Signature Verification41

Giuseppe Pirlo (University of Bari, Italy)
Donato Impedovo (Politecnico di Bari, Italy)

Low-cost face biometry for visually impaired users.....45

Luigi Balduzzi (Università di Genova, Italy)
Giovanni Fusco (Università di Genova, Italy)
Francesca Odone (Universita' di Genova, Italy)
Silvia Dini (Istituto Chiossone, Italy)
Marco Mesiti (Universit`a di Milano, Italy)
Augusto Destrero (Imavis srl, Italy)
Alberto Lovato (Imavis srl, Italy)

AUTHOR INDEX.....53