IEEE IMS 2006
2006 IEEE International Workshop on Measurement Systems for Homeland Security, Contraband Detection and Personal Safety
Alexandria, VA, USA – 18-19 October 2006

TECHNICAL PROGRAM

Tuesday, October 17, 2006

06:00PM-07:00PM Registration

Wednesday, October 18, 2006

09:00AM Registration

09:50AM Opening Session

10:00AM Keynote Address: Dr. Greg Collins

Greg Collins, Amanda Haes and Braden Giordano
Lab on a Chip Sensor Platform for Explosives and CBW Toxin Detection

11:00AM Coffee Break

11:30AM Session 1 – Biometrics

Nirupama Srinivasan and Evangelia Micheli-Tzanakou
Palm Print Recognition: A New Algorithm for Corner Detection Using Palm Anatomy Features

Remo Sala, Emanuele Zappa and Alfredo Cigada
Personal Identification Through 3D Biometric Measurements Based on Stereoscopic Image Pairs

12:30PM Lunch

02:00PM Panel Session - Multifunctional, Mutisensor Platforms for Enhanced Homeland Security
Moderator: Dr. Christodoulou

04:00PM Coffee Break

04:30PM Session 2 – Secure Communications

Christos Christodoulou, Chaouki Abdallah, Joud Khoury, Yu Paul and Francescetti Massimo
Introducing Agility in Hybrid Communication Systems and Sensors

05:00PM End Sessions

07:00PM Social Dinner

Thursday, October 19, 2006

09:00AM Session 3 – Sensing

Giovanni Bozza, Matteo Pastorino and Andrea Randazzo
Short-Range Microwave Imaging Technique Based on an Inexact-Newton Method for the Nondestructive Inspection of Dielectric Objects

Cesare Alippi and Cristian Galperti
An Embedded System for Delimiting Hazardous Areas

David Hamel, Matthew Chwastek, Bakhtier Farouk, Moshe Kam and Kapil Dandekar
A Computational Fluid Dynamics Approach for Optimization of a Sensor Network

10:30AM Coffee Break

11:00AM Session 4 – Classification

Loredana Cristaldi, Gabriele D'Antona, Marco Faifer, Alessandro Ferrero and Roberto Ottoboni
Aircraft classification using a microwave barrier

George Giakos, Srini Sukumar, Praneeth Bathini, Sriram Paturi and Anesh Kamalakar
Novel Optical Imaging Techniques for Efficient Stand off Detection of backscattered Polarimetric Signatures from Cluttered Targets

12:00PM Lunch

01:30PM Session 5 – Behavior Analysis

Alfredo Cigada and Emanuele Zappa
Analysis of Jumping Crowd on Stadium Stands Through Image Processing to Security Purposes

Juan Monroy, Jose Antonio Becerra, Francisco Bellas, Richard Duro and Fernando Lopez-Pena
Automatic Profiling and Behavior Prediction of Computer System Users

02:30PM Closing Session

02:40PM Coffee Break