Table of Contents
Object Tracking and Classification in and Beyond the Visible Spectrum
(OTCBVS ’05)

Aims & Scope
Topics of Interest
Welcome Message from Chairs
Committee
Sponsors
Call for Papers
Open Call for Benchmark/Test Dataset
Benchmark Dataset Collection
Keynote Talk
Acknowledgments
Call for papers

ORAL PRESENTATIONS
Model-Based Validation Approaches and Matching Techniques for Automotive Vision Based Pedestrian Detection
   A. Broggi, A. Fascioli, P. Grisleri, T. Graf, and M. Meinecke
A Combinational Approach to the Fusion, De-Noising and Enhancement of Dual-Energy XRay Luggage Images
   Z. Chen, Y. Zheng, B. Abidi, D. Page, and M. Abidi
Multiperspective Thermal IR and Video Arrays for 3D Body Tracking and Driver Activity Analysis
   S. Cheng, S. Park, and M. Trivedi
Tracking Humans Using Multi-Modal Fusion
   X. Zou and B. Bhanu
Improved Likelihood Function in Particle-Based IR Eye Tracking
   D. Hansen, R. Hammoud, R. Satria, and J. Sørensen
Kernel Matched Signal Detectors for Hyperspectral Target Detection
   H. Kwon and N. Nasrabadi
Spaceborne Traffic Monitoring with Dual Channel Synthetic Aperture Radar — Theory and Experiments
   S. Hinz, F. Meyer, A. Laika, and R. Bamler
Comparative Image Fusion Analysis
   F. Sadjadi
Performance Evaluation of Face Recognition Using Visual and Thermal Imagery with Advanced Correlation Filters
   J. Heo, M. Savvides, and B. Vijayakumar
Integrating LDV Audio and IR Video for Remote Multimodal Surveillance
   Z. Zhu, W. Li, and G. Wolberg
Fusion-Based Background-Subtraction Using Contour Saliency
   J. Davis and V. Sharma
Background Estimation under Rapid Gain Change in Thermal Imagery
   H. Yalcin, R. Collins, and M. Hebert
Layered Representation for Pedestrian Detection and Tracking in Infrared Imagery
C. Dai, Y. Zheng, and X. Li
Automatic Feature Localization in Thermal Images for Facial Expression Recognition
L. Trujillo, G. Olague, R. Hammoud, and B. Hernandez
Human Recognition Based on Face Profiles in Video
X. Zhou and B. Bhanu
Stereo Vision-Based Approaches for Pedestrian Detection
M. Bertozzi, E. Binelli, A. Broggi, and M. Del Rose

POSTERS
Human Activity Recognition in Thermal Infrared Imagery
J. Han and B. Bhanu
Multi-View Classifier Swarms for Pedestrian Detection and Tracking in 3D Space
P. Saisan, S. Medasani, and Y. Owechko
Multi-Frame Moving Objects Track Matching Based on an Incremental Major Color Spectrum Histogram Matching Algorithm
M. Piccardi and E. Cheng
Background Modelling in Infrared and Visible Spectrum Video for People Tracking
C. Ó Conaire, E. Cooke, N. O'Connor, N. Murphy, and A. Smeaton
Real Time Robust Human Detection and Tracking System
J. Zhou and J. Hoang