

**Object Tracking and Classification In and Beyond the Visible Spectrum**

San Diego, CA, USA

JUNE 20, 2005

in conjunction with IEEE Conference on Computer Vision and Pattern Recognition 2005

<http://www.cse.ohio-state.edu/otcbvs>

● **Aims and Scope:** The scope of Object Tracking and Classification in and Beyond the Visible Spectrum workshop series (OTCBVS) encompasses many disciplines, including visible, infrared, far infrared, millimeter wave, microwave, radar, synthetic aperture radar, and electro-optical sensors as well as the very dynamic topics of image processing, computer vision and pattern recognition. It is a fertile area for growth in both research analysis and experimentation and includes both civilian and military applications. The availability of ever improving computer resources and continuing improvement in sensor performance have given great impetus to this field of research. This technology "push" has been balanced by a technology "pull" resulting from increasing demand from potential users of this technology including both military and civilian entities as well as needs arising from the growing field of homeland security. This series of OTCBVS workshops creates connections between different communities in the machine vision world ranging from public research institutes to private, military, and medical laboratories. It brings together pioneering academic, industrial and military researchers and engineers in the field of computer vision, image analysis, pattern recognition, signal processing, sensors, and human-computer interaction.

● **Topics and Submission Guidelines:** This second IEEE Int'l Workshop on OTCBVS solicits original contributions where non-visible sensors from various domains are employed. However, we strongly encourage the submission of high quality papers that deal with object tracking and classification in the visible spectrum. Additionally, emphasis will be placed on new and traditional applications of visible and non-visible imagery. Comparative evaluation studies across the non-visible spectrum for a given computer vision or pattern recognition task are also encouraged. A preliminary benchmark/test dataset will be available at:

<http://www.cse.ohio-state.edu/otcbvs-bench/>

The **topics of interest** include: (1) Automatic Object Detection and Tracking; (2) Object Recognition and Classification; (3) Pose Estimation and Tracking; (4) Vision and Radar Fusion; (5) Combining Visible and non-Visible Signals; (6) Face Recognition in non-visible spectrum; (7) Smart Systems/Sensors (8) Automotive, Medical and Military Applications.

The paper submission is due by 5pm **March 18, 2005 EST**. All papers must be submitted anonymously, throughout the website of OTCBVS'05, and in-line with the standard IEEE CVPR paper format. More details at: www.cse.ohio-state.edu/otcbvs/

Workshop Dates:

- Submission of full manuscripts: **March 18, 2005**.
- Submission of demos: April 10, 2005.
- Notification to authors: April 15, 2005.
- Submission of revised manuscripts: April 22, 2005
- OTCBVS workshop day: June 20, 2005.

Organizing and Program Committee

Chair: **Riad I. Hammoud**, *Delphi Electronics & Safety, USA*, riad.hammoud@delphi.com

Co-Chair: **Robert W. McMillan**, *US Army Space & Missile Defense Command, USA*, bob.mcmillan@us.army.mil

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Demo/Poster Chair: **Longin J. Latecki**, *Temple University, USA*, latecki@temple.edu

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