

Call for Participation

Aerial Image Analysis and Classification

One Day BMVA technical meeting in London, UK, on 12th May 2010

Chair: Toby Breckon (Cranfield University)

Aerial image analysis and classification is a well-established area with computer vision and image processing for both aerial platform and satellite based imagery sources. The increased availability of consumer level high-quality satellite imagery, the increased use and viability of Unmanned Aerial Vehicles (UAV) and a renewed drive in remote sensing for environmental monitoring has created somewhat of a renaissance in this area in recent years.

Whilst obvious military surveillance applications pertain within this domain we are increasingly seeing the use of aerial imagery within the wider context of domestic security, safety and environmental monitoring and situational/site awareness applications. The obvious increased availability of aerial source imagery lends itself well to the increased use of data-driven analysis and classification in this area. Additionally, ongoing trends in viable digital high-bandwidth communications are also facilitating real-time analysis of full-motion video feeds from aerial platforms in some cases. However, the ever reducing cost of computation coupled with increasing sensor capabilities now help drive both research and commercial systems within this domain.

The aim of this meeting is to bring together researchers and practitioners, from both industry and academia, interested in all aspects of aerial image analysis and in addition potential future applications of computer vision work into this domain. Submissions are invited within in the following areas:

- satellite image analysis, classification or object recognition
- aerial image quality analysis and enhancement
- real-time tracking or detection from aerial platforms
- vision techniques as a navigation aid
- multi-spectral sensing and data fusion
- automated surveillance
- terrain classification and derived mapping
- remote sensing applications
- aerial platform servoing/control from imagery

Other topics within the broad domain of aerial image analysis and classification will also be considered for inclusion.

Please submit an extended summary of about one A4-sized page length (no longer than 2 pages) in length (PDF preferred). Send contributions by email attachment (1Mb max please) to Toby Breckon (toby.breckon@cranfield.ac.uk) by 1st April 2010.

Event poster: http://www.cranfield.ac.uk/~toby.breckon/events/bmva_symp_aerial10_cfp.pdf