

REPORT
2ND INTELLIGENT IMAGING PROGRAMME MEETING
IET, SAVOY PLACE, LONDON
WEDNESDAY 15/09/2010

The 2nd Intelligent Imaging Programme Meeting gathers imaging researchers and users to view, share and discuss current technologies particularly in 3D imaging. Imaging is a sub-group of the Electronics, Sensors & Photonics Knowledge Transfer Network (ESP KTN). Leading industries as well as academics presented various imaging hardware and image processing methods in handling related issues and problems in safety, security, medical, environment and entertainment. Details of the programme can be found in the agenda. Representatives from industries such as Kromek Ltd (colour 3D x-ray imaging), Virtualis Ltd (GeoVisionary – 3D virtual field) and Eykona Technologies Ltd (handheld 3D imaging for wound assessments) are also presenting their latest products through the exhibition booths.

One of the presentations that relate much to the area of research is on Vision Activity at Toshiba Cambridge Research Lab (CRL) by Prof. Roberto Cipolla (it replaced Sharp Laboratories presentation which was cancelled). He highlights on the **3R principles in Computer Vision** – Recognition (the ability to identify object), Registration (to compute position and pose) and Reconstruction (to recover 3D shape). He also mentioned on **the needs to work with single image in the future**, instead of working with stereo / more. Therefore more researches are needed **towards the algorithm and processing** rather than the hardware element. Apart from that, he also highlights on the requirements of transferring 2D into 3D environment and real-time processing, which are also the parts of Toshiba CRL future works.

Dr Andrew Fitzgibbon, Chairman of BMVA (British Machine Vision Association) and principal researcher at Microsoft Research, Cambridge, also did a good presentation on BMVA itself and some computer vision works at Microsoft. He presented current researches on Microsoft X-Box controller-free gaming system as well as a method on reconstructing moving 3D surfaces from multiple images. Dr Moira Smith from Waterfall Solutions Ltd presented on image processing for image fusion applications, where the works concentrate on fusing images from camera and infrared / thermal to encounter each other limitations (night time, feature details) for surveillance application. She also agrees with Prof. Roberto Cipolla on the prospect on computer vision where in the future, **more intelligent processing are needed**, not better or more cameras. Presentation from Eykona Technologies Ltd by Dr Peter Bannister on their handheld device for wound measurement also attracts the audiences with accurate 3D photographic image from a camera mounted with 4 flashes.

To conclude, this meeting has brought a lot of information to me in finishing my research. The opportunities to have discussions with the presenters as well as representative from industries have given me ideas and knowledge in completing my PhD. I have also obtained chances to chat and exchange contacts with the experts as well as other researchers from other universities that may assist in the future. I was just hoping that the organizers can gather more delegates from universities and research institutes in their future events.

By
Shazmin Aniza Abdul Shukor
Warwick Manufacturing Group
University of Warwick