## Project proposals in Computer Vision

Supervisor : Dr. Ahmet Orun, CCI Group. [aorun@dmu.ac.uk](mailto:aorun@dmu.ac.uk) Room: GH4.60A

Project type **:** Software development project for 2015

Computer vision (machine vision) has a broad application area in industry, traffic management, security (CCTV), health, communication, robotics and military. Particularly the development of a real-time computer vision software will help gain a productive skills and knowledge, which will give boosting effect in the career life. Those who wish to be involved with computer vision project for MSc, can select one or more of project topics as shown below. The students are expected to have programming background and develop software codes in C/C++, visual basic, etc. associating with CCD camera/s and real-time/off-line image data.

Topic 1.

Biometric applications ( Finger print identification, face recognition, stereo imaging)

Topic 2.

Security and Transportation ( CCTV applications, forensic applications , behaviour analysis from video files/online data, etc.)

Topic 3.

Health Applications ( medical imaging, skin diseases, Infrared imaging, tissue texture analysis,

Topic 4.

Industrial Applications ( vision systems for product inspection, robot vision, object tracking, texture analysis, 3D imaging in Aerospace/automotive industry, etc.)

Any suggestion on mobile phone applications related to the above topics (particularly health, security, biometrics) are welcome.