



## research school of **informatics**

<b>Project Title:</b>	The interpretation of neuroradiological images using eye tracking technology
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<b>Department:</b>	Computer Science – Applied Vision Research Centre (AVRC)

### **Project Description:**

Diagnostic errors in the interpretation of medical images have been reported since the 1940's with rates of 5-40% (of abnormality misses) being found in numerous studies. Most of these studies have concentrated upon the chest X-ray and mammograms, which are typically large static 2D images. Other complex radiological imaging procedures commonly available today include; ultrasound, Computer Tomography (CT) and Magnetic Resonance Imaging (MRI), which can each produce varying image displays of 2D, 3D and 4D imagery for examination by the specialist. For instance, a single MRI examination can of itself, produce hundreds of images which each need to be examined thoroughly in an efficient and timely manner. Here we take the domain of neuroradiology and examine the key factors pertinent to the efficient examination of MRI images.