Initial Plan

Can we detect expert and novice anaesthetists by how they watch video

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CM3203 – One Semester Individual Project, 40 credits

# Description

Previous research suggests that a distinction could be found between novices and experts in a field, based on how they view a set of images, or video. For example, the length of time fixated on any object of interest within the scene, or the frequency of movement between two focussed areas in the scene. In this project I will attempt to apply this theory to the field of Anaesthetics.

Using previously collected eye tracking data for expert and novice anaesthetists, and laymen, I intend to build a model that can distinguish between experts and novices. To achieve this, the model will need to use features in the eye movement of the subject to identify them as an expert, non-expert, novice, or non-novice, depending on which group I find to be most easily identifiable.

This project could provide more insight into what defines an expert anaesthetist, and possibly in other fields, medical or otherwise. What’s more, a model that can classify a subject with a good degree of certainty could then be implemented as an application to be used on trainee anaesthetists in order to test their progress, in the stead of more practical and involved tests, that require equipment or more time.

# Aims and Objectives

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# Work Plan

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