**“Comparing Image Quality Assessment Algorithms with Human Perception for Optimising Image Compression for ExoMars”**

CS39440 Major Project

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Abstract

Include an abstract for your project. This should be approximately 300 words.

The abstract is an overview of the work you have done. Highlight the purpose of the work and the key outcomes of the work.

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# **Background, Analysis & Process**

## **Background**

The most sensible approach to begin seemed to be to conduct some preliminary research into image compression. This included not only image compression algorithms used in a variety of disciplines including medicine, graphic design and military applications, but also, the theory behind image compression, i.e., lossy versus lossless compression, techniques used in image compression, included but not limited to; quantization, discrete cosine transform (DCT), fractal compression – and performance comparisons of some compression algorithms.