***2812ICT PROJECT PROPOSAL: PHOTOGRAPH STITCHING FOR THE CREATION OF PANORAMAS***

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# Introduction

In today’s world people the world over practice the tradition of preserving events, locations, and points in time through the use of photography, for subjects on a scale too large for a single image, the need and popularity of panorama photographs have shone through.



S.Perry displaying the eldritch horror of an incorrectly taken panorama

Many cameras today offer this feature as just another option on the camera, but they’re not perfect; these modes require the user to be in the location alone and unharried by outside influences and with a steady hand slowly pan in order to have a hope of achieving a good result. What if instead someone could take several good photos (a much easier task), or not even be there at all maybe just find multiple images of the same location and stitch them together to create a panorama after the fact. The possibility just stated is what will be the focus of this paper, with the hope of developing a panorama creation method which can take in multiple separate photos and use them to create a panorama after the fact.

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# Technical Approach

When approaching the technical aspects of this task a report titled *Recognising Panoramas* (Brown, M. and Lowe, D.G, 2003) was found which describes methods that were used to achieve results desired by this paper, as such work will be made to attempt the replication of the methods and therefore results shown in the report.

As such the approach that which will be used by this paper will be as follows:first multiple images of a subject will be either taken or found which are slightly adjacent to each other but still over lapping with special care taken to ensure there is something visually, and geometrically distinct in the overlap.

Secondly the SIFT algorithm will be used on these images separately in order to extract distinct features from them

these separate images will

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# Expected Outcome / result

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# Milestones

The following is a projection of the work that will be needed to complete this project, and how long each task is expected to take:

* This proposal

– completed

* Commencement of workflow and project development environment

– Not complete

– projected completion date

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# References

Brown, M. and Lowe, D.G, 2003. Recognising Panoramas. Vancouver, Canada: Department of Computer Science, University of British Columbia.

[online] Available at:

<http://matthewalunbrown.com/papers/iccv2003.pdf>

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