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CREATION OF 3D MODELS FROM LARGE UNSTRUCTURED DATASETS

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Abstract. Exploration of various places using low-cost camera solutions over a long period of time for a specific application in mind has resulted in large collections of images and videos that can be used for a variety of purposes. The purpose of collecting this data is often to provide a log of events and therefore for historical or scientific purposes. The varying quality of the data depends on the equipment used and the conditions under which it was collected. The accuracy of this data may also be of varying quality. In this paper we present a method for processing these datasets under various conditions and process datasets of this type to produce 3D models. Results from the discovery and subsequent exploration of the HMAS Sydney and HSK Kormoran are presented. The approach is promising and shows that there is potential to retrieve more information from these datasets than previously thought possible.

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