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*(Abby Kozey IV)*

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Forgotten Books, 2018. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from On a Parallel Implementation of Geometric Hashing on the Connection Machine: Technical Report 554 In geometric hashing, the collection of models are used in a preprocessing phase (executed off-line and only once) in order to build a hash table data structure. The data structure encodes the information about the models in a highly redundant multiple-viewpoint way. During the recognition phase, when presented with a scene and extracted features, the hash table data structure is used to index geometric properties of the scene features to candidate matching models. A search is still required over features in the scene. However, the geometric hashing scheme no longer requires a search over the features in the model sets. The result is that the recognition phase offers computational efficiencies over more traditional model-based vision methods. As we describe elsewhere there is parallelism available in the search over scene features, and there is parallelism in the indexing process inherent within the hashing scheme. Further, the computational efficiencies afforded by geometric hashing translate into a reduction in the number of independent tasks that may be simultaneously conducted (at the expense of increased storage requirements), thereby decreasing the number of processors that are needed in a parallel implementation. In this paper, we report on an implementation on the Connection Machine of one of the algorithms described in We also describe a number of modifications that are useful for efficient parallel implementation of the method for the particular case of point features. The last-section of the paper presents the results of a number of experiments that were carried out using this implementation. These experiments had a two-fold purpose: first, we evaluated the real time performance of the implementation with a large...

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