

國立高雄大學應用數學系

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A study on tensor and its applications

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摘 要：

In this paper, we study the rank of a tensor. Determining the rank of tensor is NP-hard [1]. The typical rank of $p \times q \times 2$ tensors has been investigated in [2]. We re-prove it by using subspace decomposition.

The lower-rank approximation of a tensor is an important problem. We give some numerical experiments on lower-rank approximations of a tensor by using Alternating least square(ALS) method.