

## **IMPROVED SINGULAR VALUE DECOMPOSITION FOR FACIAL IMAGE RETRIEVAL**

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### **Abstract**

In this paper a modified SVD approach called Improved SVD is proposed. In this approach the Singular value is deflated in the weights of the facial variation sensitive base images by a parameter alpha and propose a novel improved order singular value decomposition representation to alleviate facial variations for face retrieval. The this approach is proposed for effectively alleviate facial variations; and form an intermediate representation for many FR methods such as PCA and LDA to significantly improve their classification performance in case of great facial variations.

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**Keyword:** facial image retrieval, SVD decomposition, PCA, improved SVD