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A KSCST PROJECT REPORT

On

"An Proficient Approach for Face Recognition System using RSVD"

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ABSTRACT

Various prominent feature points of human faces play a critical role for designing a system that can perform facial recognition. There exist abundant volume of studies in the area of face recognition, but majority of the techniques are either computationally not viable or uses complex algorithms. Hence, the prime objective of this project is to introduce a very simple and cost effective solution for face recognition system from facial expressions by using two techniques i.e. Singular Value Decomposition (SVD) and Rational Value Sequence based Singular Value Decomposition (RSVD). Singular value decomposition (SVD) that is basically an outcome of linear algebra and plays a significant role in many application of modern digital image processing. The new algorithm or RSVD used for different alpha values gives the better results that greater than one. The alpha values less than one gives the false image detection. This approach results better computation compared to conventional algorithms of face recognition can be validated. In the future work the work is to be still improvise in terms of computation and instead of giving alpha value manually the automatic recognition of alpha value must takes place and recognize the face is to be validated.