Abstract

Here in this paper a new and efficient technique for the Saliency Region Detection using Guided Filtering & Random Walker Segmentation for the Extraction of features from Natural Images and finally Support Vector Machines is applied for the training of these features. The Proposed Methodology implemented here is applied on MSRA Natural Image Datasets and comparison is done with the existing SGNR algorithm. The Proposed methodology provides higher Precision and recall rate in comparison.

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Index Terms

Computer Science Information Sciences

Keywords

Saliency Region Detection, Natural Images, Guided Filtering, Random Walker Segmentation,
SVM.