Optical Character Recognition Technique using Intro Sort

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Abstract

In this study, we propose an optical character recognition technique using Intro Sort. Main feature of this proposed technique is that we segment images using intro sort. It reduces the comparison time for matching the pixels of an image. It reflects reduction in OCR time. Intro sort algorithm begins with quick sort and when recursion depth exceeds a level it switches to heap sort, based on the number of pixels being sorted. This approach also has advantage of recognizing number plates and text documents in very nominal time. Our approach is able to extract characters of different font sizes. Our technique is performed well in noisy images too.

References

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Index Terms

Computer Science  Pattern Recognition

Keywords

OCR, Intro sort, Image segmentation, Feature extraction, Digital image processing.