A Modified Watershed Segmentation Algorithm using Distances Transform for Image Segmentation

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Abstract

In this paper, we propose a modified watershed algorithm for image segmentation using distances transform and image smoothing method, an improved version of watershed segmentation. This algorithm allows better boundary localization due to the edge information brought by watersheds. Thus, the proposed method has been found to be able to reduce over segmentation and this would ultimately lead to easier handling by the machine towards higher level of processing at subsequent stages. The algorithm has been tested on colored image obtained from real life and has been found to yield satisfactory segmentation results.

References

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Index Terms

Computer Science

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Keywords

Over segmentation  Image smoothing  Watersheds