Error measures for segmentation results: Evaluation on synthetic images

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Abstract : In this paper we present a new approach to assess image segmentation results. This approach consists of six measures that aim, together, to compute in the sense of segmentation evaluation, the discrepancy between a region extracted from a segmentation map and its corresponding one on the reference map. Those measures take into account many aspects of the miss-segmented pixels as connectivity, compactness, location and their influence on the segmentation results.

Keywords : image segmentation, Results evaluation, Supervised evaluation