

COMPARISON OF SEGMENTATION QUALITY
ASSESSMENT FUNCTIONS IN CONTEXT OF COLOR IMAGE
OVER-SEGMENTATION REDUCTION METHOD

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ABSTRACT *The paper concerns one problem in watershed transformation: over-segmentation. It compares segmentation quality assesment functions used to assess the quality of over-segmentation reduction in images first segmented by means of watershed transformation. It presents briefly a method of over-segmentation reduction based on cluster analysis, a method proposed earlier by the authors. Using the above functions allows for semi-automatic selection of the number of classes in the final segmentation. Results are discussed and illustrated with charts and sample test images of segmentation.*