

عنوان مقاله:

IR-WCO₂C: An Enhanced Multi Operators-Based Approach for Content-Aware Image Retargeting

محل انتشار:

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خلاصه مقاله:

In recent years, the image retargeting (IR) problem has been discussed as one of the challenging topics in the field of image processing in different applied domains. In this paper, a multi operators hybrid method is proposed (IR-WCO₂C) to improve performance of an IR system, which is performed in three sub-systems. Firstly, the identification precision of important regions is enhanced using a feature extraction technique based on wavelet coefficients (WC) then identified the saliency map of images. In second sub-system, this saliency map is used to improve performance of seam carving process instead of the saliency map identified by conventional methods. Finally, the act of operators selection is improved using metaheuristic techniques to optimize process of operators combination. Findings reveal that our method, IR-WCO₂C provided the highest precision (۰.۷۴) in the IR process. Also, IR-WCO₂C provided an improvement of ۲۰% over the previous methods in different stages of the IR.

کلمات کلیدی:

.Image retargeting, IR-WCO₂C, Saliency detection, Multi operators, Metaheuristic

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