

## **A Novel Combination Method for Computing the Importance Map of Image**

**Authors :** Ahmad Absetan, Mahdi Nooshyar

**Abstract :** The importance map is an image-based measure and is a core part of the resizing algorithm. Importance measures include image gradients, saliency and entropy, as well as high level cues such as face detectors, motion detectors and more. In this work we proposed a new method to calculate the importance map, the importance map is generated automatically using a novel combination of image edge density and Harel saliency measurement. Experiments of different type images demonstrate that our method effectively detects prominent areas can be used in image resizing applications to aware important areas while preserving image quality.

**Keywords :** content-aware image resizing, visual saliency, edge density, image warping

**Conference Title :** ICECICE 2015 : International Conference on Electrical, Control, Information and Computer Engineering

**Conference Location :** Rome, Italy

**Conference Dates :** December 03-04, 2015