**AN IMAGE QUALITY ASSESSMENT METRIC BASED CONTOURLET**

**ABSTRACT**

In reduced-reference (RR) image quality assessment (IQA), the visual quality of distorted images is evaluated with only partial information extracted from original images. In this paper, by considering the information of textures and directions during image distortion, we propose a new reduce dreference IQA metric to calculate the diversifications based on contourlet transform. Experimental results illustrate that even with low data rate, the presented metric has still good consistency with the subjective perception.

**Index Terms**—Reduced reference, image quality assessment, contourlet transform