**An Entropy-based Approach for Image Optimization**

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Abstract

Image processing techniques have experience an upsurge of demand in recent years due to democratization of photo-taking technologies. In particular, the camera technology bundled with smartphones have become very much ubiquitized, allowing for users with minimal experience with photo development to partake in the creation of photographs. This means that multiple domains of image optimization that was dealt with previously by professional manual work must now be automated. Among them, the handling of photo contrasts is a particularly challenging task, as photos taken in uncontrolled environments (e.g. outdoor, windowed area) are often plagued by overexposure. Many literature works have sought to address this (cite). In this paper, the concept of entropy-based optimization is introduced to tackle this problem.