

Abstract

This research effort propounds a novel methodology for automated color matching by using Artificial Neural Networks. This would be of great benefit not only for visually impaired people but also for visually normal people who seek consciousness about accurate attire mode. We have devised and trained artificial neural networks for apparel classification and apparel matching. To get right guidance and discretion regarding color selection and matching, we have benefited from color harmony principles of color theory. The entire technique is implemented and tested in MATLAB successfully. The algorithm takes in input images of top and bottom apparels and after recognition matches their color and predicts whether it is a good match or bad match. We have used more than one thousand images as training data for apparel classification and about one lac images for color matching. Our proposed technique provides good performance and promising accuracy both in classification and color matching.