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Abstract
Systems based on computer vision and image processing are widely developed in scientific and medical applications. On the other hand, integrated analyses of color, psychology, music, and showing ways of multimedia are useful and helpful in life entertainments. Association of the two fields becomes more and more popular in recent years, and it will be a trend in the future. This motivates us to design a creative and interactive multimedia system that can recognize and capture the color information of one’s wearing when one enters a space. After the color recognition and extraction, we relate the color information with the psychology theory to analyze the characteristics and feeling of the people in the space. Moreover, we relate the psychology theory with the music theory to play appropriate music to comfort the people’s mind in the space. This application can easily be extended to exhibition centers, conference halls, coffee bars, or any space needing special music. Successful experimental results confirm the effectiveness of the proposed approach.
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