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Color Space Construction by Optimizing Luminance and Chrominance Components for Face Recognition

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Highlights

- We propose a framework of constructing effective color spaces for face recognition tasks
- The luminance component is selected from four candidates by R, G, B coefficient analysis and color sensor analysis
- Two chrominance components are extracted from the RGB color space by discriminant analysis and correlation analysis
- The proposed color space consistently performs better than state-of-the-art color spaces on four benchmark databases

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