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〈シンポジウム I〉

『感覚を科学する』視覚から考える

肌画像の解析合成とその質感制御への応用

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Skin Color Image Analysis and Synthesis and Its Applications to Appearance Control

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Abstract

We introduce a practical skin color and texture analysis/synthesis technique for e-cosmetic function. The skin color image is analyzed by extracting hemoglobin, melanin and shading components by using the independent component analysis. We also propose to control the melanin texture continually and physiologically based on the analysis of 123 skin textures in our database. The shading is also controlled to change the translucency of the skin by simple kernel operations.

Key words: skin texture, melanin and hemoglobin, translucency, pyramid-based texture analysis and synthesis, real-time video processing.