

Development of an evaluation system for an appearance of human skin

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Youthfulness of a human appearance is considerably affected by youthfulness of skin. Now, youthfulness of skin is mainly evaluated by measurement of the skin age. Skin age is measured by a water quantity of skin, a smoothness of skin, an elasticity of skin, and so on. However, an appearance of skin may be able to be evaluated by the index that is different from the skin age. We paid attention to a transparency of skin as the element which affected the appearance of skin. It seems that beauty of skin have some relation to transparency of skin, because there is expression of "transparent white skin" from old days. However, a measurement method and an evaluation method of transparency of human skin are not established yet. In this report, we suggest one method for evaluation of skin transparency. In this method, we project a grating pattern onto an object and measure its contrast. We measured the contrast of projected pattern onto some samples, such as diffusers and human skin. As a result of the experiment, it was shown that the evaluation of transparency of an object was possible by our method.