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1. A visual and digital method for predicting discomfort glare

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A visual and digital method for predicting discomfort glare

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Abstract: This thesis develops a visual and digitized method for predicting the occurrence of discomfort glare, which involves both quantitative and qualitative approaches as its validation process. The quantification approach uses the histogram of pixel luminosity of a digital image for predicting discomfort glare. The qualitative approach validates the quantification approach using human test subjects to ascertain the prediction results. The method involves a common and affordable technology to provide a more useful and accurate solution for architects in avoiding discomfort glare in their design.

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