標題: Visible Light Positioning​

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**ABSTRACT:**In this paper, we describe the design and implementation of Visible Light Positioning via camera on a smartphone as a receiver.

With the pictures the camera received, we can use the position of the light in the pictures to estimate the smartphone’s position.

**Keywords:**Indoor localization; Mobile phones; Image processing ;

1. **INTRODUCTION:**

The implement of accurate indoor positioning enables a wide range of location-based services across many sectors. For example, shopping malls and supermarkets are suitable for indoor positioning because it can provide improved navigation which helps avoid unrealized sales when customers cannot ﬁnd items they want, and it increases revenues from incremental sales from targeted advertising. However, the strong demand forecast, indoor positioning remains a “grand challenge,” and no existing system offers accurate location and orientation using unmodiﬁed smartphones.

1. **METHODOLOGY:**

**2-1 Tools :**

1. **CONCLUSION:**
2. **REFERENCES:** [1]Ye-Sheng Kuo, Pat Pannuto, Ko-Jen Hsiao, Prabal Dutta,  
    “Luxapose: Indoor Positioning with Mobile Phones and Visible Light”  
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