# Article information:

3D Scene Geometry Estimation from 360° Imagery: A Survey | ACM Computing Surveys  
<https://dl-acm-org-443.webvpn.scut.edu.cn/doi/10.1145/3519021>

# Article summary:

1. This article reviews methods for recovering 3D information from 360° imagery, which can be used in applications such as self-driving cars, robot navigation, virtual tourism, and 3D cinema.

2. It discusses the spherical imaging model, acquisition pipelines, and representation formats for 360° images.

3. It provides a comprehensive analysis of representative methods tackling the 3D scene geometry estimation problem using one, two, or more 360° images.

# Article rating:

Appears well balanced: The article presents the information in a reliable and balanced way, without biases and prejudices. The claims made in the article are well supported and, where applicable, all sides of the argument are given opportunity to present their point of view. The article appears trustworthy and reliable.

# Article analysis:

The article is generally reliable and trustworthy. The author provides a comprehensive overview of the current state of research on 3D scene geometry estimation from 360° imagery and presents a thorough review of existing methods for this task. The article also includes an extensive list of public datasets and evaluation metrics that can be used to compare different techniques.

The article does not appear to have any major biases or one-sided reporting; it presents both sides equally and does not make unsupported claims or omit counterarguments. Furthermore, the author does not appear to be promoting any particular technique or approach; instead they provide an objective overview of the field with no apparent partiality towards any particular method or technique.

The only potential issue with the article is that it does not discuss possible risks associated with using these techniques in real-world applications; however, this is likely due to the scope of the article rather than any bias on behalf of the author.

# Topics for further research:

* 3D scene geometry estimation applications
* 360° imagery risk assessment
* 3D scene geometry estimation accuracy
* 3D scene geometry estimation techniques
* 3D scene geometry estimation datasets
* 3D scene geometry estimation evaluation metrics

# Report location:

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