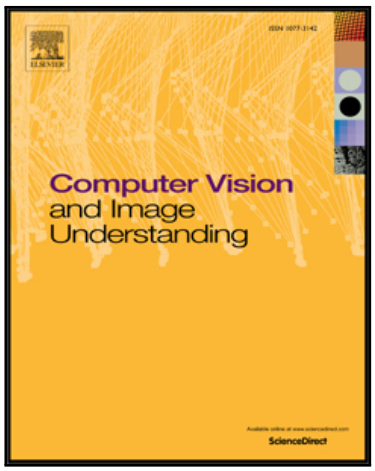
Accepted Manuscript



Polarisation Photometric Stereo

Gary A. Atkinson

PII: S1077-3142(17)30076-0
DOI: 10.1016/j.cviu.2017.04.014
Reference: YCVIU 2566

To appear in: *Computer Vision and Image Understanding*

Received date: 30 December 2016
Revised date: 1 March 2017
Accepted date: 30 April 2017

Please cite this article as: Gary A. Atkinson, Polarisation Photometric Stereo, *Computer Vision and Image Understanding* (2017), doi: 10.1016/j.cviu.2017.04.014

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- A method for surface normal recovery using photometric stereo and polarisation
- Two source photometric stereo used for 2D normal estimation
- Polarisation information used for azimuthal angle estimation
- Unknowns in normals due to ambiguities are resolved via region growing across surface
- Method is proven robust to specular inter-reflections and evaluated extensively

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/4968737

Download Persian Version:

https://daneshyari.com/article/4968737

Daneshyari.com