

Camera calibrating

IMA208

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The aim of these practical works (PW) is to get you familiar with several applications in which camera calibrating is involved :

panorama, which consists in the stitching of several small images in order to generate a large one,

perspective correction, the goal is to generate a fronto parallel image where there is no more perspective, this can be applied to the scan of documents or to the pictures of buildings, taken from ground,

height measurement with a single view, which can be done thanks to the invariance of the bi-ratio.

For most of these application, a python script is provided to you, as well as some images. Nevertheless I encourage you to take your own pictures.