

LM in Artificial Intelligence
Image Processing and Computer Vision
20/07/2023

- 1) Describe the bilateral filter, its main objective and how it works. In this respect, briefly highlights its benefit compared to linear filters. Then, describe the relative mathematical formulation, detailing each component involved. Finally, provide an analysis of its limitations.
- 2) List, without describing in detail, the main steps of the Zhang's camera calibration algorithm. Then, discuss how many different intrinsic and extrinsic parameters must be estimated if we collect 12 calibration images. Finally, describe how the intrinsic parameters A and extrinsic parameters are computed once homographies for each calibration image have been estimated.