NTUST course: Computer Vision and Applications (CI5336701, 2017 Spring)

FinalP roject: Reconstruct 3D from stereoscopic images

Date Due : 2017. Jun. 24th, PM11:55 •

Description:

1-1. Write a program for reconstructing 3D points from two images, then, output a .xyz file. (choose your tools, ex. C++/C, openCV, Matlab).

撰寫程式將立體照片內容計算出 3D 資料。並匯出成.xyz 檔案。

- 1-3. Please write a short report (upto 3 pages, A4), and use Meshlab or other 3D viewer to verify your result.

請撰寫一份簡易報告(上限 3 頁 A4),簡易說明製作內容。建議使用 3D 看圖軟體軟體如 meshlab 檢驗您所製作的 3D 點是否正確。

1-4. Deliverable: There are three types of data you should provide: 1) Source code in C++/C or Matlab, with simple comment. 2) Execution file (.exe). 3) description document. Please zip all your files, then, upload on Moodle (<a href="http://moodle.ntust.edu.tw/">http://moodle.ntust.edu.tw/</a>) by due 6/24 PM11:55.

請繳交 3 種檔案 1)程式原始檔,並在內文加簡易註解,2)執行檔,3) 3 頁以內的簡易報告敘述製作(以 ppt, doc 或 pdf 儲存皆可)。請將所檔案壓縮,並在期限內(6/24 PM11:55)上傳到 Moodle。

## Hint:

- 1. Please refer to course slides.
- 2. The 3D model is roughly 130 mm in height.

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