AIC\_5101B

Final project (8h + personnal work)

24/10/2022

**People counting in IR and Depth images**

**Context (people counting applications):**

Citation from TI documentation (<https://drive.google.com/drive/folders/15r_k_72HvOlkbihcujMEabaGFHWqY24D>)

**Objective :**

To develop the application of people counting (indoor situation), based on Infra Red data and Depth Data.

**Proposed methodology**

1. Study and understand the data (visualization, shape, and descriptors identification)
2. Try to apply some basic conventional approach (thresholding ?), understand the weakness and technological bottlenecks
3. Experiment some AI based technique to do this task (Yolo-like approach suggested - <https://pjreddie.com/darknet/yolo/>)

**Dataset acquisition, parameters, and description :**

Data to use in the project are here :

[**https://drive.google.com/drive/folders/1wutQAKc6l8bhCPkPRk7AsWvBeC4EMxUG?usp=sharing**](https://drive.google.com/drive/folders/1wutQAKc6l8bhCPkPRk7AsWvBeC4EMxUG?usp=sharing)

**Ful dataset and specifications are here :**

[**https://vizta-tof.kl.dfki.de/timo-dataset-overview/**](https://vizta-tof.kl.dfki.de/timo-dataset-overview/)

**You can access the complete dataset with these credentials :**

**user: ED\_esiee**

**psw: ED\_esiee!**

Warning: the dataset is very huge, and takes a lot of place on the disk. Within the project, we will consider only a small portion of the available data.