Detection

- model: cv::dnn::Net

- width: int - height: int

+ Detection():void + detect(cv::Mat): vector<vector<int>>>

Tracker

- setOfHumans: vector<vector<

- prevPos: vector<vector<vector

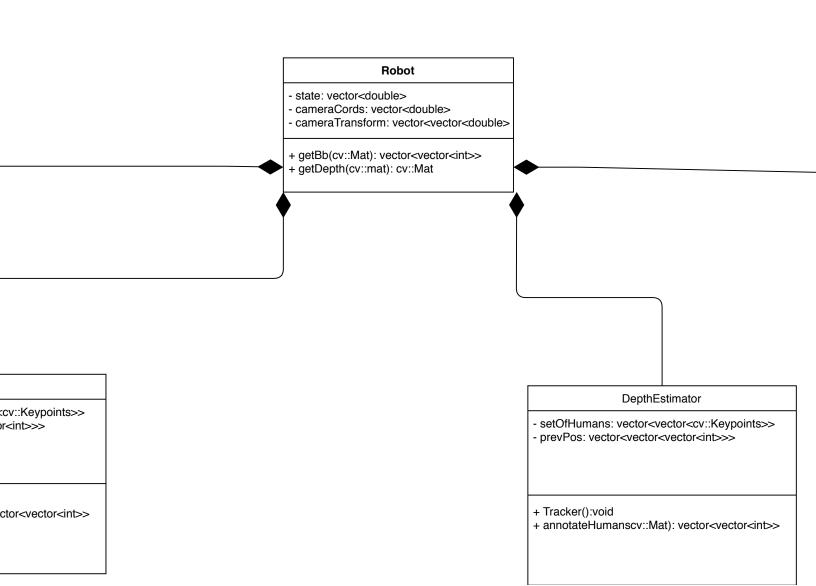
+ Tracker():void + annotateHumanscv::Mat): ve

UML Class Diagram-Initial

+ preprocess(cv::Mat):cv::Mat

IOHandler

- + argParse(vals: cv::CommandLineParser):void
- + seeImg(img: cv::Mat): void
- + seeVid():void
- + saveImg(path:String, cv::Mat):void
- + saveVid(path:String):void



Transformation

- TranformMat: vector<vector<double>>

- + setTransfromMat(vector<vector<double>>):void + getTransfromMat(): vector<vector<double>> + getTransCords(vector<double>):vector<double>