MiaoDX
缪东旭

Graduate Student,
Self-motivated Developer

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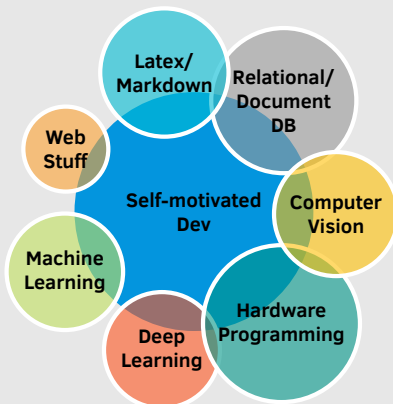
○ https://github.com/MiaoDX

🌐 https://miaodx.github.io/

Skills

Overview

Programming

$0\ LOC \longrightarrow 5000\ LOC$

OpenCV • Python • Markdown

C++ • C • Arduino

Java • JS • HTML

Experience

TJU RM Member
CV, DL methods on object detection, tracking and decision making.

Teaching Assistant
Programming Design Practice I, full English course for freshmen.

Teaching Python101
Teaching python for several overseas master candidates major in finance.

Valunteer Teacher
Volunteered to teach in a primary school in TongChuan, Shannxi, organized by "Dripping Action" (one project of Mutualistic Symbiosis Community of Youths & Environment, Shaanxi).

Education

2016 - Now	MSe., Computer Software	Tianjin University
2012 - 2016	BEng., Computer Software	Xidian University

Scholarships & Awards

2017-2018	Second-class School Scholarship
2016-2017	First-class School Scholarship
Oct 2016	Postgraduate recommendation offer from Tianjin University
2014-2015	National Inspiration Scholarship
2014CUMCM	Second-class prize in Shaanxi Division
2013-2014	Second-class School Scholarship
2012-2013	First-class School Scholarship

Papers

Jan 2018	**Paper Accpeted by ICASSP 2018** ACTIVE CAMERA RELOCALIZATION WITH RGBD CAMERA FROM A SINGLE 2D IMAGE (Camera ready, First Author)
Mar 2018	**Paper Accpeted by ICME 2018** Fast and Reliable Computational Rephotography on Mobile Device (Camera ready, Oral, Third Author)

Projects

Recent projects, more can be found on github   github.com/MiaoDX

Jan 2018 - Present	**ICRA 2018 DJI ROBOMASTER AI CHALLENGE** Preparing for ICRA 2018 DJI RM AI CHALLENGE with other five teammates from TJU. In charge of object detection and tracking.
Mar 2016 - Present	**Active Camera Relocalization** Actively relocate camera to previous pose is one fundamental research area in robotics and computer vision. Major part of my undergraduate graduation and conference papers.
Python Data Label	**Data Labelling tool for ML/DL** DataLabel Data labelling tool to make the work less tedious with tracking methods underneath. Export file for DLIB and Darkflow.
Virtual Env DL	**UnrealCV with Deep Learning (Faster-RCNN)** UnrealCV & DL Integrate (smallcorgi/Faster-RCNN_TF) with virtual environment library UnrealCV. Exploring the potential benefits of synthetic data on improving exisiting DL implements.
Python RL	**PacMan capture the flag with Reinforcement Learning** PacMan & RL Some reinforcement projects on pacman capture the flag game, with fundamental concepts and a contest hold in class.
OpenCV Flask	**Restful depth camera** Depth_camera & http Expose one stereo camera (ZED) into restful one, so that it can be accessed from other programming languages with ease.
Python ML	**UCI Adult database processing with scikit-learn** scikit_learning Use sklearn to predict whether income exceeds $50K/yr based on census data, got best result in class (85%+ precision).
Java BP	**Back propagation implementation using java** BP_java It helped a lot to understand DL by implementing one simple ANN from scratch before diving into those amazing open source ML(DL) libraries.
Node.js MongoDB	**Attendance management system** Attendance system In a team of four, made an RESTful attendace webset system with Node.js, mongodb and Jade for a (faked) company. Stuffs can ask for leave via our system and wait for the managers's approval, statistical information can also be generated from our system.