

Resumé

Chien-Chen(Calvin) Weng

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Experienced Data Scientist

My research field is **Robot Perception and Learning**.

- particularly, it is moving object tracking introducing neighboring (object) interaction model and scene interaction model.

Familiar with **Machine Learning**.

- have ever implemented SVM, Real AdaBoost, TreeCascade for detecting objects, such as cars and pedestrians.

With experience in **Data Analysis**.

- have done data analysis for various business problems, which include sales prediction for chain drugstore, users' online booking behaviour analysis, NCAA basketball tournament prediction and so on.

Have **Computer Vision** background knowledge.

- learned about vision-based perception issues, which include features, camera model and 3D object shape recovery, from working or taking online courses.

Skill Summary

Machine Learning Theory : SVM, AdaBoost, Cascade, Boosting Machine, Random Forest, clustering and so on.

Machine Learning Tool : LIBSVM, XGBoost.

Data Analysis Programming : Matlab/Octave(solid), Python.

System Programming : C/C++(solid).

Data Base : MySQL, SQLite.

Language : Chinese(native), English.

Career Progression

Product Developer, ACTi Corp., Aug. 2012 - 2015

- My job is to design computer vision algorithms for various surveillance and business service applications. I am mainly incharge of pedestrian and car detection. Besides, I also support algorithm review for moving object tracking, license plate recognition, heat map analysis and so on.
- As a senior developer, I am also responsible for providing the initial algorithm sketch based on the custom's requirement, hosting the team meeting and assigning corresponding tasks.

Representative Projects

Surveillance Applications, ACTi Corp.

- Develop applications including tripwire, forbidden area, missing/unattended object detection, incorrect direction detection and crowd analysis.

People Counting, ACTi Corp.

- Detect and count the number of people entering and exiting the store for client *New World Design Center* (<http://www.new-world.com.tw>).

Answer Sheet Recognition, Private, Aug. 2015 - Oct. 2015

- Recognize the marked options from cell phone camera image for client *Study123* (<https://www.study123.com.tw>).

Interests and Continued learning

Data Analysis@Kaggle

Robotics, Machine Learning@Coursera

Computer Vision@CRCV

Android Application

Education

National Taiwan University, Taipei, Taiwan

- M.S., Computer Science and Information Engineering, Sep 2008 - Jan 2012

National Chung Cheng University, Chiayi, Taiwan

- B.S., Computer Science and Information Engineering, Sep 2000 - Jul 2005
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Publication

Chien-Chen Weng, Chieh-Chih Wang, Jennifer Healey, A Segmentation and Data Association Annotation System for Laser-based Multi-Target Tracking Evaluation, in Proceedings of the IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM 2012), July 2012. PDF

Kuo-Huei Lin, **Chung-Han Weng¹** and Chieh-Chih Wang, LIDAR-based Multitarget Tracking using Neighboring Interaction Force Models, in Proceedings of the 24th IPPR Conference on Computer Vision, Graphics and Image Processing (CVGIP), August, 2011.

Resume: <http://ccweng.github.io/resume> [PDF]

1. my former name↩