Tsun-Yi Yang

Curriculum Vitae

Contact

Phone	886-952449338
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Research Interest

Face	Facial attribute estimation, pose estimation, efficient regression
Matching	local descriptor, global descriptor, image matching for localization

WEB

Google scholar	https://scholar.google.com/citations?user=WhISCE4AAAAJ&hl=en
Github	https://github.com/shamangary
Linkedin	https://www.linkedin.com/in/tsun-yi-yang-65248795/

Education

2014-2019	**PhD of Computer Science and Information Engineering**, *National Taiwan University*.
2011-2013	**Masters of Applied Physics**, *National Taiwan University*.
2007–2011	**Bachelor of Physics**, *National Taiwan University*.

Experience

2019/01–2019/07	**PhD Research Intern**, *Scape Technologies*, London. (Mentor: **Vassileios Balntas**) Global descriptor for image retrieval. Local keypoint detection and matching for large-scale localization.
2017/07–2017/12	**Algorithm engineer**, ULSEE, Taiwan. Pratical face recognition problem solver.
2013–2018/12	**Research Asistant**, ACADEMIA SINICA, CITI, Taiwan. Developed image matching method, feature descriptor, and Convolutional Neural Network (CNN) descriptor study.

Publication

PhD Thesis

Title	*Deep Feature Learning for Fast and Efficient Regression Application*
Supervisors	Prof. Yen-Yu Lin and Prof. Yung-Yu Chuang

Master Thesis

Title	*Optimal Control of CNOT Gate Operation with Leakagestates and Non-Markovian Environments*
Supervisors	Prof. Hsi-Sheng Goan

Paper

CVPR16	*Accumulated Stability Voting: A Robust Descriptor from Descriptors of Multiple Scales*
Website	https://github.com/shamangary/ASV
Authors	Tsun-Yi Yang, Yen-Yu Lin, and Yung-Yu Chuang
ICCV17	DeepCD: Learning Deep Complementary Descriptors for Patch Representations
Website	https://github.com/shamangary/DeepCD
Authors	Tsun-Yi Yang, Jo-Han Hsu, Yen-Yu Lin, and Yung-Yu Chuang
IJCAI18	SSR-Net: A Compact Soft Stagewise Regression Network for Age Estimation
Website	https://github.com/shamangary/SSR-Net
Authors	Tsun-Yi Yang, Yi-Husan Huang, Yen-Yu Lin, Pi-Cheng Hsiu, and Yung-Yu Chuang
CVPR19	FSA-Net: Learning Fine-Grained Structure Aggregation for Head Pose Estimation from a Single Image
Website	https://github.com/shamangary/FSA-Net
Authors	Tsun-Yi Yang, Yi-Ting Chen, Yen-Yu Lin, and Yung-Yu Chuang
ICCV19 workshop	(under review) DAME WEB: DynAmic MEan with Whitening Ensemble Binarizationfor Landmark Retrieval without Human Annotation

Book

Title	Solution Manual for Modern Physics of Institutes of Physics in Taiwan
Author	Tsun-Yi Yang
ISBN	9789571206813

Projects/team works

2015 **Keypoint based retrieval for logos**, NTU.
[**Team leader**] Using the number of keypoint correspondences to search the logo.

2016 **Video retrieval**, Academia Sinica, III.
[**Personal project**] Comparing the performance of classical and deep learning based results.

2017 **Deep feature learning for image matching**, Academia Sinica, NTU.
[**Team leader**] Designing complementary feature pair (real-value and binary) for image matching. (ICCV17 paper accepted)

2018 **Real-time age estimation**, Academia Sinica, NTU.
[**Team leader**] Real-time age estimation project with compact network design. (IJCAI18 paper accepted)

Scholarship

2016 **Travel grant**, Appier.
The grant application was accepted by Appier for CVPR2016 travel. Due to the grant of FAOS was also accepted, this grant was gratefully returned to Appier.

2016 **Travel grant**, Foundation for the Advancement of Outstanding Scholarship (FAOS).
The grant application was accepted by FAOS for CVPR2016 travel.

2017 **Travel grant**, Appier.
The grant application was accepted by Appier for ICCV2017 travel. Due to the grant of FAOS was also accepted, this grant was gratefully returned to Appier.

2017 **Travel grant**, Foundation for the Advancement of Outstanding Scholarship (FAOS).
The grant application was accepted by FAOS for ICCV2017 travel.

2018 **Scholarship**, Pan Wen Yuan Foundation.

Reviewers and Awards

2019 **Review award**, Outstanding reveiwer of CVPR19.

2019 **Reviewer**, reveiwer of ICCV19.

Computer skills

Advanced Pytorch, Keras, Tensorflow, MATLAB
Intermediate Python, Torch7, Lua, LaTeX
Basic C++, JAVA

Languages

Chinese **Mothertongue**
English **Intermediate**   *Conversationally fluent*

References

1. **Yung-Yu Chuang** cyy@csie.ntu.edu.tw
2. **Yen-Yu Lin** yylin@citi.sinica.edu.tw
3. **Vassileios Balntas** balntas@robots.ox.ac.uk