Yun-Chun Chen

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⦿ YunChunChen

Education

Sept. 2014 – Jun. 2018 **Bachelor of Science**, *National Taiwan University*, Taipei, Taiwan.
Department of Electrical Engineering

Research Experience

Jan. 2020 – Jun. 2020 **Vision and Learning Lab, University of California, Merced, CA, USA**.
Short-term Visiting Scholar. Advisor: Prof. Ming-Hsuan Yang

- Working on video-based 3D human pose estimation and shape recovery.

Jul. 2018 – Nov. 2019 **Vision and Learning Lab, National Taiwan University, Taipei, Taiwan**.
Research Assistant. Advisor: Prof. Yu-Chiang Frank Wang

- Proposed a meta-learning algorithm for semi-supervised deep metric learning.
- Proposed a cross-resolution generative adversarial network for cross-resolution re-identification.
- Proposed an adversarial learning algorithm to address the resolution mismatch issue in visual recognition.

Apr. 2019 – Jul. 2019 **Vision and Learning Lab, Virginia Tech, VA, USA**.
Short-term Visiting Scholar. Advisor: Prof. Jia-Bin Huang

- Proposed an algorithm for searching structured image prior for image restoration and synthesis tasks.

Jul. 2017 – Mar. 2019 **Computer Vision Lab, Academia Sinica, Taipei, Taiwan**.
Research Assistant. Advisors: Prof. Yen-Yu Lin, Prof. Jia-Bin Huang, and Prof. Ming-Hsuan Yang

- Proposed a cross-task consistency algorithm for joint semantic matching and object co-segmentation.
- Proposed a cross-domain consistency algorithm for unsupervised domain adaptation.
- Developed a weakly-supervised learning algorithm for semantic matching.

Nov. 2016 – Oct. 2018 **Communication and Multimedia Lab, National Taiwan University, Taipei, Taiwan**.
Undergraduate Research Student. Advisor: Prof. Winston H. Hsu

- Developed a 3D segmentation network for lung cancer radiomics-tumor region segmentation.
- Developed a cross-view sequence learning algorithm for cross-domain image-based 3D shape retrieval.
- Proposed a weakly-supervised learning method for object localization.

Publications

Journal papers

PAMI 2020 **Show, Match and Segment: Joint Weakly Supervised Learning of Semantic Matching and Object Co-segmentation**.
Yun-Chun Chen, Yen-Yu Lin, Ming-Hsuan Yang, and Jia-Bin Huang
IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020

PAMI **Cross-Resolution Adversarial Dual Network for Person Re-Identification and Beyond**.
Yu-Jhe Li*, **Yun-Chun Chen***, Yen-Yu Lin, and Yu-Chiang Frank Wang
IEEE Transactions on Pattern Analysis and Machine Intelligence (under review)

Conference papers

ICCV 2019 **Recover and Identify: A Generative Dual Model for Cross-Resolution Person Re-Identification**.
Yu-Jhe Li*, **Yun-Chun Chen***, Yen-Yu Lin, Xiaofei Du, and Yu-Chiang Frank Wang
IEEE International Conference on Computer Vision, Seoul, Korea, October, 2019

CVPR 2019	**CrDoCo: Pixel-level Domain Transfer with Cross-Domain Consistency**. **Yun-Chun Chen**, Yen-Yu Lin, Ming-Hsuan Yang, and Jia-Bin Huang IEEE Conference on Computer Vision and Pattern Recognition, Long Beach, California, June, 2019
AAAI 2019	**Learning Resolution-Invariant Deep Representations for Person Re-Identification**. **Yun-Chun Chen***, Yu-Jhe Li*, Xiaofei Du, and Yu-Chiang Frank Wang AAAI Conference on Artificial Intelligence, Honolulu, Hawaii, January, 2019 **Oral Presentation**
ACCV 2018	**Deep Semantic Matching with Foreground Detection and Cycle-Consistency**. **Yun-Chun Chen**, Po-Hsiang Huang, Li-Yu Yu, Jia-Bin Huang, Ming-Hsuan Yang, and Yen-Yu Lin Asian Conference on Computer Vision, Perth, Australia, December, 2018
IEEE VIP Cup ICIP 2018	**Learning Volumetric Segmentation for Lung Tumor**. Jhih-Yuan Lin, Min-Sheng Wu, Yu-Cheng Chang, **Yun-Chun Chen**, Chao-Te Chou, Chun-Ting Wu, and Winston H. Hsu IEEE International Conference on Image Processing, Athens, Greece, October, 2018 IEEE Video and Image Processing (VIP) Cup **Third Place**
ICASSP 2019	**Saliency Aware: Weakly Supervised Object Localization**. **Yun-Chun Chen** and Winston H. Hsu IEEE International Conference on Acoustics, Speech and Signal Processing, Brighton, UK, May, 2019

Teaching

Spring 2018	**Teaching Assistant**, Machine Learning (Graduate Course).
Fall 2017	**Head Teaching Assistant**, Computer Programming.
Summer 2016	**Teaching Assistant**, Statistical Science Camp, Institute of Statistical Science, Academia Sinica.

Honors and Awards

Sept. 2019	**Scholarship**, Travel grant for ICCV 2019, Appier.
Aug. 2019	**Scholarship**, Travel grant for CVPR 2019, Appier.
Feb. 2019	**Travel Grant**, AAAI 2019, National Taiwan University.
Dec. 2018	**Travel Grant**, ACCV 2018, Academia Sinica.
Oct. 2018	**Third Place**, IEEE Video and Image Processing (VIP) Cup.
Nov. 2017	**Special Jury Award**, SDN/NFV Contest.
Oct. 2017	**China Technical Consultants Incorporation Scholarship**.
Sept. 2017	**Second Prize**, Undergraduate Innovation Award.
Jun. 2017	**Scholarship**, National Taiwan University.
Dec. 2015	**Honorable Mention**, NTU Triangle Alliance App Creativity Contest.

Academic Services

Reviewer	Neural Information Processing Systems (**NeurIPS**) 2020
Reviewer	European Conference on Computer Vision (**ECCV**) 2020
Reviewer	IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**) 2020
Reviewer	AAAI Conference on Artificial Intelligence (**AAAI**) 2020
Reviewer	IEEE International Conference on Computer Vision (**ICCV**) 2019
Reviewer	British Machine Vision Conference (**BMVC**) 2019, 2020
Reviewer	IEEE International Conference on Image Processing (**ICIP**) 2019