

Hieu Le

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Research Background

Fifth-year Ph.D. Candidate with a background in Computer vision and Machine Learning. My work focus on developing machine learning techniques for image and video segmentation from weakly-labeled and unsupervised data (ACCV16, ICCV17W, CVPR19W). My recent papers analyze the effect of shadows on images: how to detect (ECCV18) and remove them (ICCV19). I have working experiences in medical imaging and remote sensing data.

Research Experience

Research Assistant.	Stony Brook University, Computer Vision Lab	Aug 2014-Present
Research Assistant.	Stony Brook University, Lynch Lab	Aug 2017-Present
	• Weakly-Supervised Semantic Segmentation for Remote Sensing Data.	
Research Intern.	Ecole Centrale de Lyon, France	July-Aug 2019
	• Improve Image Inpainting using Image Retrieval.	
Research Intern.	American International Group, AIG Science	May-Aug 2017
	• Instance Semantic Segmentation.	
Research Assistant.	Stony Brook University, School of Medicine.	May-Aug 2015
	• Voxel Registration for 4D Data.	
Research Intern.	POSTECH - South Korea , Machine Learning Lab	June-Aug 2012

Selected Publications - [Google Scholar](#)

1. [Le, H.](#), Samaras, D. (2019). Shadow Removal via Shadow Image Decomposition. In ICCV 2019, Seoul, Korea. - 2019
2. [Le, H.](#), Gonçalves, B., Samaras, D., Lynch, H. (2019). Weakly Labeling the Antarctic: The Penguin Colony Case. In CVPR Workshop (CV4GC), 2019
3. [Le, H.](#), Vicente, T., Nguyen V., Nguyen, M-H., & Samaras, D. (2018). A+D Net: Training a Shadow Detector with Adversarial Shadow Attenuation. ECCV 2018, 2018
4. Ranjan, V., [Le, H.](#), & Nguyen, M-H. (2018). Iterative Crowd Counting. ECCV 2018, 2018
5. [Le, H.](#), Yu, C.-P., Zelinsky, G., & Samaras, D. (2017). Co-localization with category consistent CNN features and geodesic distance propagation. In ICCV Workshop 2017, Venice, Italy. - 2017
6. [Le, H.](#), Nguyen, V., Yu, C.-P., & Samaras, D. (2016). Geodesic distance histogram feature for video segmentation. In ACCV 2016, Taipei, Taiwan. - 2016
7. Yu, C.-P., [Le, H.](#), Zelinsky, G., & Samaras, D. (2015). Efficient video segmentation using parametric graph partitioning. In ICCV 2015, Santiago, Chile. - 2015
8. [Le, H.](#), Duong, A. & Tran, S.: Multiple-Classier Fusion Using Spatial Features for Partially Occluded Hand-written Digit Recognition. ICIAR 2013: 124-132. - 2013

Education

Ph.D in Computer Science, Stony Brook University	F2014 - PRESENT
B.S in Computer Science, Vietnam National University - HCMUS	F2008 - S2012

Honors & Awards

Vietnam Education Foundation Fellowship - 54.000 USD	2014
Vietnam National Foundation for Science and Technology Sponsorship - 2.000 USD.	2013
Silver Medal - Vietnam National Informatics Olympiad	2007

Professional Activities

Teaching Assistant: Discrete Math, Computer Graphics, Data Structures
Reviewer: CVPR 19, ICCV 19, AAAI 19

Skills

Python, Pytorch, C++, Matlab, Java, L^AT_EX, etc.
