Hieu Le

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Research Background

Fifth-year Ph.D. Candidate with a strong 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

- Improving Image Inpainting with Image Retrieval.

Research Intern. American International Group, AIG Science — May-Aug 2017

- Semantic Instance Segmentation.

Research Assistant. Stony Brook University, School of Medicine. — May-Aug 2015

- Voxel Registration for 4D Tracking.

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 Handwritten 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, LaTeX, etc.