Hieu Le

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Education

Ph.D in Computer Science, Stony Brook University — F2014 - Present

B.S in Computer Science, Vietnam National University - HCMUS — F2008 - S2012

Research Background

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

Research Experience

Stony Brook University, Lynch Lab, Prof. Heather J. Lynch. — Aug 2017-Present

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

Stony Brook University, Computer Vision Lab, Prof. Dimitris Samaras. — Aug 2014-Present

Stony Brook University, School of Medicine, Prof. Helene D. Benveniste. — May-Aug 2015

POSTECH - South Korea , Machine Learning Lab, Prof. Seungjin Choi. — June-Aug 2012

Publications

1. **Le, H.**, Samaras, D. (2019). Shadow Removal via Shadow Image Decomposition. In Review, 2019
2. **Le, H.**, Gonçalves, B., Samaras, D., Lynch, H. (2019).Weakly Labeling the Antarctic: The Penguin Colony Case. In Review, 2019
3. Bui,T., Stoller,S., & **Le, H.**. (2019). Extensible Relationship-Based Access Control Policy Mining Using Neural Network and Evolutionary Algorithm. SACMAT, 2019
4. Borowicz,A., **Le, H.**, Humphries,G., Nehls,G. , Höschle, C., Kosarev, V., & Lynch, H. (2019). Deep learning networks for surveying cetaceans from satellite imagery. In Review, 2019
5. **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
6. Ranjan, V., **Le, H.**,& Nguyen, M-H. (2018). Iterative Crowd Counting. ECCV 2018, 2018
7. **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
8. **Le, H.**, Nguyen, V., Yu, C.-P., & Samaras, D. (2016). Geodesic distance histogram feature for video segmentation. In Asian Conference on Computer Vision (ACCV), Taipei, Taiwan. - 2016
9. Yu, C.-P., **Le, H.**, Zelinsky, G., & Samaras, D. (2015). Efficient video segmentation using parametric graph partitioning. In International Conference on Computer Vision (ICCV), Santiago, Chile. - 2015
10. **Le, H.**, Duong,A. & Tran, S.: Multiple-Classier Fusion Using Spatial Features for Partially Occluded Handwritten Digit Recognition. ICIAR 2013: 124-132. - 2013

Honors & Awards

Vietnam Education Foundation Fellowship - 54.000 USD — 2014

Vietnam National Foundation for Science and Technology Sponsorship - 2.000 USD. — 2013

Korea POSTECH - Exchange Student scholarship — 2012

Silver Medal - Vietnam National Informatics Olympiad — 2007

Professional Activities

TA: Discrete Math - Spring 2017, Fall 2017, Computer Graphics, Data Structures - Fall 2016.

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Skills

- Languages: Python,C++, Matlab, Java
- Frameworks: Pytorch, Tensorflow