Hsin-Ping Huang

Curriculum Vitae

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Education

2020 – Present	**Ph.D. Student**, *University of California, Merced*, CA, USA. Electrical Engineering and Computer Science Vision and Learning Lab
2017 – 2020	**Master of Science**, *The University of Texas at Austin*, TX, USA. Computer Science, GPA: 3.95/4.0
2013 – 2017	**Bachelor of Science**, *National Taiwan University*, Taipei, Taiwan. Electrical Engineering, GPA: 4.22/4.3, rank: 3rd/166

Research Interests

Computer Vision, Machine Learning

Publications

ECCV 2020	**Semantic View Synthesis**. <u>Hsin-Ping Huang</u>, Hung-Yu Tseng, Hsin-Ying Lee, Jia-Bin Huang European Conference on Computer Vision (ECCV), 2020
CoNLL 2019	**Unsupervised Adversarial Domain Adaptation for Implicit Discourse Relation Classification**. <u>Hsin-Ping Huang</u>, Junyi Jessy Li Conference on Computational Natural Language Learning (CoNLL), 2019

Research Experience

May. 2020 – Aug. 2020	**Amazon Alexa, Cambridge**. *Mentor: Krishna Puvvada, Ming Sun* ○ Improved few shot acoustic event detection.
Feb. 2019 – Mar. 2020	**Vision and Learning Lab, ECE, Virginia Tech**. *Advisor: Prof. Jia-Bin Huang* ○ Generated free-viewpoint rendering of a synthesized image given a semantic label map.
Feb. 2018 – Aug. 2018	**Computational Discourse Lab, Linguistics, The University of Texas at Austin**. *Advisor: Prof. Junyi Jessy Li* ○ Exploited explicit discourse relations to classify implicit relations without labels based on adversarial discriminative domain adaptation.

Course Projects

Autonomous Robots Fall 2018	**Learning Environment Models from Data**, UT-Austin. *Instructor: Prof. Peter Stone* ○ Explored learning of the environment models for the Nao robot on the RoboCup soccer field with the distance of detected objects as the observations.

Deep Learning Seminar Fall 2018	**Single-Image Novel View Synthesis**, UT-Austin. *Instructor: Prof. Philipp Krähenbühl* ○ Improved the appearance flow model for synthesizing novel views for scenes given a single image as input.
Natural Language Processing Spring 2018	**Improving Word Vector by Visual Context**, UT-Austin. *Instructor: Prof. Raymond Mooney* ○ Built the word vectors upon the multimodal skip-gram model with the average visual features of words extracted from images captioning datasets.
Visual Recognition Fall 2017	**Learning Time Warping for Action Recognition**, UT-Austin. *Instructor: Prof. Kristen Grauman* ○ Designed a neural network module to temporally warp and align the video to improve the action recognition rate.

Awards

Jun. 2017	**Graduation Ceremony Representative**, EE, National Taiwan University. 3rd place graduation (3/166)
2014 – 2016	**Presidential Award (4 times)**, EE, National Taiwan University. Top 5% of students in one semester
Dec. 2016	**3rd Prize in Integrated Circuit Computer Aided Design Contest**, Taiwan Ministry of Education and IEEE CEDA. Topic: Static Timing Analysis
Mar. 2016	**9th Place in Data Structure and Programming Contest**, EE, National Taiwan University and Cadance. Topic: FRAIG —- Functionally Reduced And-Inverter Graph

Teaching Experience

Aug. 2017 – Present	**CS, The University of Texas at Austin**. ○ CS 331 Algorithms and Complexity (Fall 2017) ○ CS 324E Elements of Graphics (Spring 2018) ○ CS 329E Elements of Software Engineering (Fall 2018) ○ CS 303E Elements of Computers and Programming (Spring 2019) ○ CS 303E Elements of Computers and Programming (Fall 2019) ○ CS 303E Elements of Computers and Programming (Spring 2020)

Technical Skills

Programming	C/C++, Python
Toolbox / Software	Pytorch, Tensorflow, Matlab, OpenCV

References

Ph.D. Advisor	**Ming-Hsuan Yang**, *Professor*, University of California, Merced. ✉ mhyang@ucmerced.edu ⓘ homepage
Research Advisor	**Jia-Bin Huang**, *Assistant Professor*, Virginia Tech. ✉ jbhuang@vt.edu ⓘ homepage