Yuyin Zhou

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Highlights

Languages: C, C++, Python
Tools: Matlab, Caffe, tensorflow

Education

Johns Hopkins University, Baltimore, Maryland — Ph.D.,Computer Science   *Sep 2016 – Jun 2020*
♦   Advisor: Prof. Alan L.Yuille

University of California Los Angeles, Los Angeles — M.S.,Electrical Engineering   *Sep 2014 – June 2016*
♦   Cumulative GPA: 3.6/4.0

Huazhong University of Science and Technology, China—B.S., Electrical Engineering   *Sep 2010 – June 2014*
♦   Cumulative GPA: 3.88/4.0

Professional Experience

Summer research intern, Google Cloud AI
♦   Host: Mei Han   *Jun 2017 – Aug 2017*
♦   Research Project: CT images segmentation
♦   Applied state-of-the-art AI technologies to radiology images to assist automatic diagnosis and treatment.

Intern, MIRTHE(Mid-InfraRed Technologies for Health and the Environment), Princeton University
♦   Advisor: Prof. Jason W. Fleischer   *Jul 2013 – Aug 2013*
♦   Research Project: Phase retrieval based on Gerchberg-Saxton Algorithm
♦   Implemented phase retrieval of a pair of light distributions by adding nonlinear media to improve the original Gerchberg-Saxton Algorithm

Intern, NFRI(National Fusion Research Institute), South Korea
♦   Advisor: Prof. Patrick H. Diamond   *Jul 2011 - Aug 2011*
♦   Research Project: study the plasma trajectory in Tokamak
♦   Simulated plasma trajectory during nuclear fusion in Tokamak based on the sandpile model

Research Project

Healthy pancreas segmentation in abdominal CT scans
Publication: ***Yuyin Zhou***, Lingxi Xie, Wei Shen, Yan Wang, Elliot Fishman and Alan Yuille, "A Fixed-Point Model for Pancreas Segmentation in Abdominal CT Scans", in International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI, Acceptance Rate ~ 32%), Quebec City, Quebec, Canada, 2017.

Pancreatic cysts segmentation in abdominal CT scans(cooperate with Johns Hopkins School of Medicine)
Publication: ***Yuyin Zhou***, Lingxi Xie, Elliot Fishman and Alan Yuille, "Deep Supervision for Pancreatic Cyst Segmentation in Abdominal CT Scans", in International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI, Acceptance Rate ~ 32%), Quebec City, Quebec, Canada, 2017.

Adversarial examples generations for semantic segmentation and object detection
Publication: Cihang Xie*, Jianyu Wang*, Zhishuai Zhang*, ***Yuyin Zhou***, Lingxi Xie and Alan Yuille, "Adversarial Examples for Semantic Segmentation and Object Detection", in IEEE International Conference on Computer Vision (ICCV, Acceptance Rate ~ 29%), Venice, Italy, 2017.