Keyuan Zhang

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Education

Sep 2022 – Now

Virginia Tech
Ph.D in Computer Science
- supervised by Bo Ji

Sep 2018 – Jun 2022

Southern University of Science and Technology
Undergraduate in Computer Science and Engineering
- supervised by Xin Yao
- GPA: 3.84/4.0
- Rank: 10/151
- Honors: Dean Scholarship (2018), Merit Scholarship (2020)
- Serve as a student assistant in course *Introduction to Computer Science* (3 semesters), *Mathematical Logic* (2 semesters) and *Computer Programming (JAVA)* (1 semester)

Internship Experience

Jul 2020 – Aug 2020

Ping An Technology (Shenzhen) Co., Ltd.
Algorithm Engineer
- Manage the database and develop a program to automatically update the entry in the database.

Projects Experience

May 2021 – Jul 2021

SOC Summer Workshop 2021
School of Computing, National University of Singapore
- Compared the accuracy on the traffic sign recognition task with different classifiers and preprocess methods.
- Used color segmentation to generate the Region of Interest (RoI) and use the generated RoI to help training and improve the accuracy of model.
- Awarded champion in the course *Visual Computing* and got a final performance A+.

Mar 2021 – Jul 2021

Zhang, K., Wu, K., Chen, S., Zhao, Y. & Yao, X. *AdverseGen: A Practical Tool for Generating Adversarial Examples to Deep Neural Networks Using Black-box Approaches* in *Artificial Intelligence XXXVIII* (Springer International Publishing, Cham, 2021), Accepted.
- Incorporated the state of the art algorithms to generate adversarial examples on image classification.
- Designed a user-friendly graphical user interface to help users generate examples satisfying different constraints.

May 2021

GECCO 2021: Competition on Niching Methods for Multimodal Optimization
- Used two stage evolutionary algorithms: For each iteration, first cluster the samples then find the optimal of each cluster.
- Used self-adaptive population size.