Ye Tian

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Education

Fudan University, Shanghai Sept. 2018 – Present

Bachelor of Electronic Science and Technology (Honor Class)

GPA: 3.68/4.00 (Total), 3.78/4.00 (Second Year)

Ranking: 9/204

Course: Pattern Recognition and Machine Learning (A), Digital Signal Processing (A), Information Theory (A), Mathematic Analysis (A), College Physics (A), Engineering Mathematics (A), Probability, Mathematical Statistics and Stochastic Process (A), Analog Circuit (A), Fundamentals of Digital Logic (A), Data Structure and Algorithm Design (A), Signal and System (A), Multimedia Technology (A), Programmable Device and Hardware Description Language (A), Microcomputer Principle and Interface Technology (A)

Academic Experience

Domain adaptation algorithm combined with Markov Random Field Jul. 2020 – Present

Wang Dao project (FDUROP)

- Define clique and mutual energy function on Markov Random Field based on Gram matrix
- Propose domain adaption algorithm that minimizes energy on source domain and target domain
- Carry out experiments on toy datasets and hyperspectral datasets, analyse results and adjusted the proposed algorithm based on the results

IPFS Jan. 2021 – Present

Fudan MediaNET

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Projects

Drug property prediction May. 2020 – Jun. 2020

Spring 2020, Pattern Recognition and Machine Learning

- Review existing property prediction approaches and give report *Property Prediction Briefing* in class
- Build Self-Attention LSTM model and the basic framework of the program, provide commandline options for training and evaluating models and data preprocessing functions
- Prepare the Review of Existing Methods and Algorithm Analysis and Code Summary sections of report

Reproduce and improve JPEG2000 Oct. 2020 – Dec. 2020

Autumn 2020, Digital Signal Processing

- Devise scalable, zero config and multiprocess acclerated framework for implementing image processing algorithms and provide profound command line interface for external programme calling
- Implement color transform, tiling and quantizing, cooperate with classmate to implement EBCOT encoding and wavelet transform

Skills

Programming Languages: Python, MATLAB, LaTeX, C/C++, Go, Julia, Shell, Java, Assembly
Research Skills: Coding, literature review, mathematical modeling, data cleaning, experiment result analysing
Frameworks and Libraries: TensorFlow, NumPy, SciPy, Matplotlib, seaborn, scikit-learn
English Ability: TOEFL IBT 98, CET-6 612