Lipeng Liang

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EDUCATION

Department of Software Engineering, Tongji University, Shanghai, China   Sep 2016- Jun 2020

➢ B.E. in Software Engineering, Overall GPA: 3.72/4.0, Major GPA: 3.71/4.0

➢ Core Courses: Digital Image Processing, Computer Vision, Data Structure, Algorithm, C Programming, C++ Programming, Database Technologies and Applications, Operation Systems, Calculus, Linear Algebra

RESEARCH EXPERIENCES

Machine Learning Method for Uterine Fibroids Detection | Research Assistant   Jun 2018 -present

Advisor: Ye Luo, professor assistant at Department of Software Engineering, Tongji University

➢ Collected and analyzed current neural network likely to be used for uterine fibroids classification

➢ Helped to pre-process the uterine fibroids data with programming

➢ Assisted to apply fast-RCNN to uterine fibroids detection

➢ Proposed improvements to better uterine fibroids detection effect with edge detection

Saliency Guided Network for Pulmonary Nodule Classification | Research Assistant   Sep 2018- Dec 2018

Advisor: Ye Luo, professor assistant at Department of Software Engineering, Tongji University

➢ Collected and analyzed classical neural network with gate-mechanism

➢ Recurred part of Itti' paper about saliency map and applied to pulmonary nodule

➢ Proposed gate-mechanism for saliency guiding the pulmonary nodule classification

➢ 3rd author of "Saliency Guided Network for Pulmonary Nodule Classification" submitted to ICME 2019 (International Conference on medical education)

3D Spatial Pyramidal Dilated Network for Pulmonary Nodule Classification | Research Assistant   Dec 2017-Apr 2018

Advisor: Ye Luo, professor assistant at Department of Software Engineering, Tongji University

➢ Learned the basics of machine learning and recurred classical classification network like BPN, CNN and RNN

➢ Collected and analyzed current network for pulmonary nodule classification

➢ Published the paper "3D Spatial Pyramid Dilated Network for Pulmonary Nodule Classification" in *Symmetry* 2018

PUBLICATION

➢ 1. Guokai Zhang, Jihao Luo, Lipeng Liang, Pengcheng He, L. Itti Saliency Guided Network for Pulmonary Nodule Classification submitted to *ICME*, Dec 2018

➢ 2. Guokai Zhang, Xiao Liu, Dandan Zhu, Pengcheng He, Lipeng Liang, Ye luo[*] and Jianwei Lu[*] 3D Spatial Pyramid Dilated Network for Pulmonary Nodule Classification. *Symmetry*. 2018; 10(9):376:2073-8994.

AWARDS

➢ The Second Prize of the National College Students Mathematical Modeling Competition   Nov. 2018

➢ 2018 Tongji University First Class Scholarship (10/186)   Nov. 2018

➢ 2018 "Chaingu Cup" 1nd place of Blockchain Application Innovation Competition (1/96)   Jun. 2018

➢ The 4th China "Internet +" College Students Innovation and Entrepreneurship Competition Silver Award   May. 2018

➢ 2018 Microsoft Student Club Practice Space Station Outstanding Win (10/119)   Aug. 2018

➢ 2017 Tongji University First Class Scholarship (10/196)   Oct. 2017

LEADERSHIP AND ACTIVITIES

Student Information Management System Based on Blockchain | Project Leader   Apr 2018 - Present

➢ Led a group of 4 students to design and realize the system based on blockchain

Tongji University IBM Club | Student Union| Vice President   Sep 2018 - Present

➢ Responsible for recruiting new members for club and became the biggest club in our department

➢ Organized IBM Blue Gas Station activity for inviting the IBM staff to introduce IBM Watson in Tongji

SKILLS

➢ Programming Languages: python, C/C++, Matlab, javascript, java

➢ Applications: Microsoft Office Suite, JetBrains Suite, Maya