Xiaolei Lu

Personal information

Degree	Master	Phone	18351990069
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Education

2016 – 2019 **Master**, *Statistics*, Nanjing Normal University, *Score:344.5;Rank:3/76*.

2012 – 2016 **Bachelor**, *Statistics*, Nanjing University of Posts and Telecommunications, *GPA:3.85/5.00;Rank:1/77*.

2013 – 2016 **Bachelor**, *Communication Engineering*, Nanjing University of Posts and Telecommunications, .

Project experience

The Intelligent Analysis of Business to Business - Financial Statements.
2018.03 – 2018.04
- The purpose of this project is to predict the future holding probability of the products based on historical financial statements;
- Sort out data and integrate all dimensions data into convenient analysis format;
- Classify according to the distribution and change of products, then deal with missing data and feature selection;
- Use different models to predict different types of products.

Preserving Edge Image Denosing Based On B-Spline.
2017.11 – 2018.02
- The project aims to design a denoising algorithm that takes into account both the structure and speed of operations.
- Detect possible jumps based on B-splines;
- Use K-Means to remove spurious jumps;
- Connect jump points as jump curves by using linear interpolation;
- Based on the jump curve, the image is divided into multiple modules;
- Use double B-spline fitting surfaces for each module to achieve denoising image.

Foreground Goals Extraction In Video.

2017.09 – 2017.09

- This project uses R and Matlab to achieve the foreground goals in the video under complex conditions;
- For static backgrounds, use background difference directly for foreground object extraction;
- For dynamic background, use Gaussian mixture model for dynamic modeling;
- For dithered video, a Gaussian mixture model is established after image registration through corner detection and motion compensation;
- For a video with drastic changes in light, when the light has been judged by the buried point, then the Gaussian mixture model is reinitialized.

Major awards

2017.11 The 14th China Graduate Mathematics Modeling Contest Third Prize

2016.11 The 13th China Graduate Mathematics Modeling Contest Third Prize

2015.12 3S Cup National University Biological Networking Technology and Application "Three Creations" Contest second prize

2014.11 The National University Student Mathematical Modeling Contest Jiangsu Second Prize

2012.09 Many school-level awards

Practice experience

- 2017.06 – 2018.06,I am the vice chairman of the Graduate's Union Meeting of Mathematical Science at Nanjing Normal University,responsible for the handling of the daily affairs of the Institute, coordinating the activities organized by various departments, and mainly responsible for the financial and statistical work of the seminar.
- 2014.05 – 2015.06,Complete provincial key (national level) innovation training program—Jiangsu Private Bookstore Survival Status and Development Study (project number: 201410293035Z), and obtained excellent conclusion.

Personal skills

- **Familiar**：R,Python,MySQL,Matlab,Basic Statistics Methods, Data Structures and Algorithms, Machine Learning
- **Know**：Java,Hive,MapReduce,Latex,Markdown