

Tian Fengrui

Undergraduate

Age: 22

GitHub: <https://github.com/tianfr>

Research Interest: Computer Vision, Pattern Recognition

English Proficiency: TOEFL 92; CET-6 546

Gender: Male

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EDUCATION

B.S. in Xi'an Jiaotong University

2017.09-2021.07

Software Engineering

GPA: 3.6 / 4.0

(Recommended postgraduate) M.S. in Institute of Artificial Intelligence and Robotics, XJTU

2021.09-2024.07

Pattern Recognition and Intelligent Systems

RESEARCH EXPERIENCE

Study on Hybrid Human-computer Segmentation Method for Weakly Labelled Human Organ Images, Xi'an Jiaotong University

Participant

2019.11-Present

- Dedicated to applying deep learning technology in medical image analysis to the real world by combining human interaction and segmentation algorithm;
- **Fengrui Tian**, Zhiqiang Tian, Shaoyi Du, Jihua Zhu, Nanning Zheng, Interactive Prostate MR Image Segmentation with Surface Graph Convolutional Network, Medical Image Computing and Computer Assisted Interventions (**MICCAI, Top conference in Medical Image Analysis**) 2021, submitted.
- Fengrui Tian, Zhiqiang Tian*, Shaoyi Du*, Zhang Chen, Jingyi Song, Wensong Chan, Nanning Zheng, Surface-GCN: Surface Graph Convolutional Network for Interactive Organ Segmentation in Medical Images, IEEE Transactions on Medical Imaging (**TMI, Top journal in Medical Image Analysis**), submitted.

System on Chip Fault Tolerance Research Project, Xi'an Jiaotong University

Participant

2019.04-Present

- Research on protecting system on chip from being destroyed by transient faults and promoting the performance of fault tolerance in embedded system;
- Established and improved a brand-new checkpointing scheme "MsCp" for real-time embedded system which reduced total embedded system overheads by 20% compared to previous schemes;
- Chenhong TIAN, **Fengrui TIAN**, Xiaozhi DU, Checkpoint Optimization Approach with Application Multiple-state for Real-time Embedded System, *TEHNIČKI VJESNIK - TECHNICAL GAZETTE*, submitted (**SCI**).

Mining Communities in Big-Data with Algorithms, National University of Singapore

Team Leader

2019.07

- Organized other 3 group members to detect potential connections between movies and books with data on Douban website by data mining algorithms;
- Analyzed the relationship between 105 user groups and 8 different types of books and the relationship between 117 movies and different groups of users and then established the connection "books-users-movies" based on those 2 relationships;
- [Project in Github](#) [Project Home Page](#)

Website for the 16th China Model United Nations Conference, Xi'an Jiaotong University

Technical Director

2019.3-2019.10

- Managed the team to build a conference official website and a conference news website both of which were used to glean personal information of nearly 800 conference delegates, observers, and faculty advisors from about 150 universities, and to publish up-to-date conference news;
- Led team for daily website maintenance for about half a year to ensure the normal running of 2 websites before, during and after the conference.

LEADERSHIP EXPERIENCE

The 16th China Model United Nations Conference, Xi'an, China

Technical Director

2019.3-2019.10

- Participated in planning of the whole meeting with a budget of 800,000 Yuan. As the Technical Director, responsible for coordinating department members to manage about 1000 participants' information and conference information delivery from the media department;
- Managed the team to conduct about 2000-page conference documents, 2 video clips for opening and closing ceremony, about 15 posters and program arrangement in the Social Event in the evening;
- Organized nearly 300 volunteers that were divided into 15 different groups during 4-day conference sessions to improve the quality of the conference.

SKILLS, CERTIFICATES AND OTHERS

The third prize scholarship in Xi'an Jiaotong University

2019.11, 2020.11

Bronze medal in China College Computing Contest Group (CCCC) Programming Ladder Tournament

2019.4

Outstanding Student in Xi'an Jiaotong University

2019.11, 2020.11

Top 10 in speech contest during the military training in Xi'an Jiaotong University

2017.9