

LanTian Xu

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Education

Beijing Institute of Technology, School of Computer Science and Technology *Sept.2019 - Present*

Master of Science in *Computer Science and Technology*

GPA: 88.26/100

China Agricultural University, College of Information and Electrical Engineering *Sept.2015 – June.2019*

Bachelor of Science in *Computer Science and Technology*

GPA: 3.61/4.00

Publication

- **Research on K-truss Community Search Algorithm for Temporal Networks.**

LanTian Xu, Ronghua Li*, Guoren Wang, Biao Wang.

**Supervisor: Prof. Ronghua Li*

Journal of Frontiers of Computer Science and Technology, 2020, 14(9): 1482-1489.

<https://doi.org/10.3778/j.issn.1673-9418.1909050>

This paper uses the classical K-truss model to model the community, and then proposes a new continuous community model (k, Δ, θ) -truss suitable for time series graph data. This paper also proposes a temporal community search algorithm with approximate linear time, and then analyzes the performance of the algorithm and the results of community mining based on real datasets.

- **An anonymous reporting system based on blockchain.**

LanTian Xu, Ronghua Li*, Guoren Wang, Fusheng Jin, Zhiwei Zhang.

**Supervisor: Prof. Ronghua Li*

Pending Chinese Patent, Sept.2020

Designing an opinion collection and reporting system mainly used in schools.

- **A data exchange system based on blockchain.**

LanTian Xu, Ronghua Li*, Guoren Wang, Fusheng Jin, Zhiwei Zhang.

**Supervisor: Prof. Ronghua Li*

Pending Chinese Patent, Sept.2020

Designing a model to make deals between mistrustful sides.

Research Experience

A distributed framework for machine learning based on Python

Sept.2017 - Present

Research Assistant at Data Science Lab, Beijing Institute of Technology

Advisor: Prof. Guoren Wang

The project aimed at improving the performance of Ray^[1], an existing distributed computing systems which achieved 16.7k stars in Github .

- Learning and being familiar with the source code of Ray
- Being a contributor of the open source community of Ray
- Designing state management and fault tolerance for Ray streaming
- Building connectors for different data sources

Awards & Honors

- **Merit Postgraduate student, 2020** *Nov.2020*
Awarded to students with all-round abilities
- **Second-Class Academic Scholarship, BIT** *Oct.2020*
Awarded to students with good academic performance
- **First-Class Freshmen Scholarship, BIT** *Sept.2019*
Awarded to students with strong scientific potential
- **Second-Class Beijing Mathematical Contest in Modeling** *Nov.2017*
Awarded to students with strong problem-solving ability

[1] Moritz P, Nishihara R, Wang S, et al. Ray: A distributed framework for emerging AI applications[C]//13th USENIX Symposium on Operating Systems Design and Implementation. 2018: 561-577.