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 IELTS: 6.0

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
- 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.