Yuying Zhao

Education

Huazhong University of Science and Technology Wuhan, China
M.S. in Computer Science, GPA: 3.94/4.00 2018–2021(expected)

Huazhong University of Science and Technology Wuhan, China
B.S. in Computer Science, GPA: 3.98/4.00 2014–2018

Languages

– **TOEFL:** 106;**GRE:** 325

Projects

- **Cumulative Influence Maximization during a time period** (ongoing)
effects of influence discount on user selections; prediction over a streaming graph
Motivated by the fact that the influence decays with time, we propose a new problem taking the time effect into account. Additionally, instead of picking k seeds at a time, we aim to select seeds successively during a period when the graph evolves. Thus we can adjust the subsequent selections based on existing results. One of the major challenges of this problem is that the incoming edge streams are not known in advance, so we need to predict when to choose and what to choose.

- **Theta-Influence Maximization** (2019-2020)[on submission]
intermediate compressed results; corresponding update algorithm
We extend the classical influence maximization problem from the static scenarios to the dynamic ones in a new perspective. We propose a problem called Theta-IM by taking history selections into consideration. A sketch-based method is proposed as the baseline approach. A more effective method is then implemented based on the exploitation of intermediate compressed results and corresponding update algorithms.

- **Traffic data visualization system** (2017)
visualization; large-scale real-world traffic data analysis
The traffic data is thoroughly analyzed in various aspects, including bus routing, the flow of people at different stations and lines. This information is then represented graphically by making use of visual elements like charts and maps. The final display shows the status of the public transport system, which makes it easier to find relatively densely populated or congested areas. The result serves as a reference for planning routes and adjusting stations and provides inspirational ideas for further research on traffic data.

Scholarships and Awards

- The First Prize Scholarship 2018–2019

Extracurricular Activities

- Volunteer at conference CCF BigData 2019 2019
More than 1,300 people, including industry leaders, experts and scholars, and business representatives in the field of big data, attended the conference. I assisted the teacher with financial work, printing the invoice and rechecking to assure correctness. I gave corresponding invoices to the enrolled participants and charged those who enrolled in the meeting at the scene.