

Dongmei Chen (陈冬梅)

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EDUCATION

Soochow University, Suzhou, P.R. China

09/2018 – 07/2021

- *Master of Engineering*, School of Computer Science and Technology

Anhui Normal University, Wuhu, P.R. China

09/2014 – 07/2018

- *Bachelor of Engineering*, School of Computer and Information

- **Ranking**: (3rd/109)

PUBLICATIONS

✧ Postgraduate period

- [1] **Dongmei Chen**, Yang Du, Shenghui Xu, Yu-E Sun, He Huang, Guoju Gao. Online Anomalous Taxi Trajectory Detection Based on Multidimensional Criteria[C]. IJCNN2021. (**CCF C, Have Contributed**)
- [2] **Dongmei Chen**, Xiaofei Bu, He Huang, Yang Du, Guoju Gao, Yu-E Sun. A Waiting Area Based Route Recommendation Algorithm for Idle Taxi Drivers[J]. Computer Engineering, 2021. DOI : 10.19678/j.issn.1000-3428.0060727. (**CCF C in Chinese**)
- [3] Tao Tao, Yu'e Sun, **Dongmei Chen**, Wenjian Yang, He Huang, Yonglong Luo. A Method of Map Outlines Generation Based on Smartphone Sensor Data[J]. Journal of Computer Research and Development, 2020, 57(7): 1490-1507. (**CCF A in Chinese**)
- [4] Tao Tao, Yu-E Sun, **Dongmei Chen**, Yu Xin, Yonglong Luo, He Huang. PosAla: A Smartphone-Based Posture Alarm System Design for Smartphone Users[C]. in Proc of the 14th Int Conf on Mobile Ad-Hoc and Sensor Networks (MSN). IEEE, 2018: 115-120. (**CCF C, Best Paper Award**)

✧ Undergraduate period

- [5] Xiaoyao Zheng, **Dongmei Chen**, Yuqing Liu, Hao You, Xiangshun Wang, Liping Sun. Spectral Clustering Algorithm Based on Differential Privacy Protection[J]. Journal of Computer Applications, 2018, 38(10): 2918-2922. (**CCF C in Chinese**)
- [6] Software Copyright
 - TBD-Crawler V1.0, 2017SR177622

RESEARCH & PROJECT EXPERIENCE

➤ 2020.05 – Now **Research on Route Recommendation Method for Idle Taxi Drivers**

Recommend suitable routes to idle drivers, to maximize their revenue, minimize driver cruise time and passenger waiting time.

- Conducted research on scientific papers in the field of route recommendation, study the latest progress of route recommendation methods;
- Understood the reinforce learning method – Q-learning, Multi-armed Bandit, Markov Model; Implement route recommendation algorithm (MNP, MDM, DRL) proposed by Qu, Garg, Ji et al.

➤ 2019.09 – 2020.05 **Research on Abnormal Trajectory Detection Method Based on Taxi Data**

Use the machine learning method and probabilistic statistical model to detect abnormal trajectories.

- Studied the literature related to abnormal trajectory detection algorithm, and implement the experiment of the latest literature;
 - Learned Random Forest algorithm, Linear Regression algorithm, Recursive Neural Network model, Gaussian Mixture model and VAE model;
 - Wrote and submitted a paper “Online Anomalous Taxi Trajectory Detection Based on Multidimensional Criteria”.
- 2016.05 – 2018.09 **Research on the Issues Related to Social Networks Based on Sensitive Data**
- Write a crawler program to climb the user comments, obtaining the user's release content, time and scenic spots;
 - Completed a software copyright “TBD-Crawler v1.0”;
 - Presided over a research project (National Undergraduate Innovation and Entrepreneurship Training Program), named “Research on identification and protection of sensitive data in social networks”, and won the outstanding achievement award in 2018;
 - Published a paper “Spectral Clustering Algorithm Based on Differential Privacy Protection” on the Journal of Computer Applications in 2018.

SELECTED AWARDS

2018 ~ 2021	First-class Scholarship; Second-class Scholarship
2014 ~ 2018	Outstanding Graduate Award (2018) Second Prize of Contemporary Undergraduate Mathematical Contest in Modeling (Anhui Province 2017) First-class Scholarship; Second-class Scholarship National Encouragement Scholarship

PERSONAL SKILLS

- **Language:** CET-6 (459), CET-4 (452);
- **Programming Languages:** C/C++, C#, Python, Java, etc.;
- **Professional Knowledge:** Data Structure (Stack, Queue, Tree, Graph), Basic Algorithms (Greedy, Dynamic Programming, Divide and Conquer, Backtracking), etc.;
- **Specialized Courses:** SQL Server database, Computer Network, Operating System, Introduction to Software Engineering, etc.

PERSONAL QUALITIES

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|--------------------------|-----------------|
| • Teamwork Spirit | • Conscientious |
| • Excellent communicator | • Independence |
| • Leadership | • Creativity |
| • Organization | • Analytical |
| • Responsible | • Confidence |

INTERESTS / HOBBIES

- Improvement: Reading, Meditation, etc.;
- Leisure Time: Social media, Music, Travelling, etc.;
- Sports: Running, Badminton, etc.