

KE LI

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EDUCATION

University of Electronic Science and Technology of China	<i>2022-2026</i>
-Major: Computer Science (Ph.D. candidate, supervised by professor Shuo Shang)	
University of Electronic Science and Technology of China	<i>2020-2022</i>
-Major: Computer Science (Master, supervised by professor Shuo Shang)	
University of Electronic Science and Technology of China	<i>2016-2020</i>
-Degree: Bachelor Degree in Mathematics, Bachelor Degree in Computer Science	

RESEARCH AREAS

Spatio-temporal Data Mining, High-Dimensional Vector Retrieval, Route Planning, Urban Computing

EXPERIENCES

Special Research Student, Department of Computer Science, Nagoya University.	<i>2023/12-Present</i>
Research Associate, State Key Laboratory of IoTs for Smart City, University of Macau.	<i>2024/07-2024/12</i>
Visiting Researcher, Center for Spatial Information Science, The University of Tokyo.	<i>2023/07-2023/12</i>

SELECTED PUBLICATIONS

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- [under review] **Ke Li**, Shuo Shang, Lisi Chen, Christian S. Jensen, Panos Kalnis. Beyond Locations: A Motion Range-Aware Similarity Join, KDD, 2025.
- Ke Li**, Shuo Shang, Leong Hou U. App2Exa: Accelerating Exact kNN Search via Dynamic Cache-Guided Approximation, IJCAI, 2025.
- Zhongjun Ding, **Ke Li**, Lisi Chen, Shuo Shang. Parallel Online Similarity Join over Trajectory Streams, Proceedings of the ACM on Web Conference (WWW), 2025.
- Ke Li**, Lisi Chen, Shuo Shang, Haiyan Wang, Yang Liu, Panos Kalnis, Bin Yao. Towards Controlling the Transmission of Diseases: Continuous Exposure Discovery over Massive-Scale Moving Objects, IJCAI, 2022.
- Ke Li**, Lisi Chen, Shuo Shang, Panos Kalnis, Bin Yao. Traffic Congestion Alleviation over Dynamic Road Networks: Continuous Optimal Route Combination for Trip Query Streams, IJCAI, 2021.
- Ke Li**, Lisi Chen, Shuo Shang. Towards alleviating traffic congestion: Optimal route planning for massive-scale trips, IJCAI: 3400–3406, 2020.
- Hongyu Wang, **Ke Li**, Shuo Shang. DLRD: dual-level network for rumor detection on geo-textual data, GeoInformatica: 335-351, 2024.
- Ke Li**, Hongyu Wang, Ziwen Chen, Lisi Chen. Relaxed group pattern detection over massive-scale trajectories, Future Generation Computer Systems: 131-139, 2023.
- Ziwen Chen, **Ke Li**, Silin Zhou, Lisi Chen, Shuo Shang. Towards robust trajectory similarity computation: Representation-based spatio-temporal similarity quantification, World Wide Web: 1271-1294, 2023.
- Chenhao Wang, **Ke Li**, Lisi Chen. Deep unified attention-based sequence modeling for online anomalous trajectory detection, Future Generation Computer Systems: 1-11, 2023.
- Ke Li**, Xuan Rao, XiaoBing Pang, Lisi Chen, Siqi Fan. Route Search and Planning: A Survey. Big Data Research, 26: 100246, 2021.

SKILLS

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- **Technical Skills:** Java, Python, Matlab and \LaTeX .
Deep Learning (PyTorch, trajectory embedding, attention mechanism, LSTM, graph neural network, etc.)
 - **Languages:** English (fluent), Chinese (native), Japanese (beginner)

AWARDS

First-Class Scholarship, National Scholarship, etc.