

Keran Li

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🎓 Education and Employment

Present	Nanjing University , School of Computer Science
Sep. 2022	Ph.D. Candidate in Computer Science and Technology, under supervision of Prof. Haipeng Dai Interest: <i>ML and LLM for Signal Processing, Wireless Sensing and Mobile Computing</i>
Jun. 2022	Dalian University of Technology , School of Computer Science and Technology
Sep. 2018	B.S. in Computer Science and Technology Thesis: <i>Research on Acoustic Ranging Based on Mobile Phone Sound Sensor</i>

📖 Publications

- [IEEE TMC] **Keran Li**, Haipeng Dai, Wei Wang, Junlong Chen, Jiliang Wang, Shuai Tong, Meng Li, Lei Wang, Haoran Wang and Guihai Chen. "RoLEX: A LoRa-based Rotation Speed Measurement System for Ubiquitous Long-distance Monitoring Applications", IEEE Transactions on Mobile Computing (TMC), 2025.

🔗 Project Experience

- **Research on Target Rotation Speed Measurement based on LoRa Signal**
(Postgraduate Research & Practice Innovation Program of Jiangsu Province, Principal Investigator):
 - First proposed long-distance rotation speed measurement system based on LoRa signal;
 - Designed and implemented the algorithms and system architecture to enhance the sensing sampling rate of LoRa signal;
 - Achieved a sensing distance exceeding 50 m and a sensing error below 0.7%, surpassing existing rotation speed measurement systems in both distance and accuracy.

🏆 Awards and Honors

- 2019 - 2019 ■ **The 28th College Student Mathematics Competition (Second Prize)**, Dalian
- 2018 - 2019 ■ **Excellent Scholarship for Study**, Dalian University of Technology

👤 Professional Services

Program Committee Member:

- Track Chair, ACM Turing Award Celebration Conference (TURC), 2024
- Track Chair, ACM Turing Award Celebration Conference (TURC), 2023

Reviewer:

- IEEE Transactions on Mobile Computing (TMC)

Teaching Assistant:

- Distributed Network, 2025 Fall, Nanjing University
- Distributed Network, 2024 Fall, Nanjing University