

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 tracking 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 tracking 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 TURC, 2024
📘 Track Chair, ACM TURC, 2023

Reviewer:

- IEEE TMC

Teaching Assistant:

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