Haoze Chang(常浩泽)

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Objective

to obtain Ph.D position

Research Interest

generative AI (GAN, diffusion model)，LVM(Large Vision Model), Semantic Communication.

Education

2018.09 - 2022.07 **Hangzhou Dianzi University** **Communication Engineering** **Bachelor**

- GPA：4.16/5.00（randking top 11%） CET-6: 558
- Excellent grades in core courses（Data Structures 4.4/5，Communication principles 4.4/5 etc.）

2022.09 - now **Harbin Institute of Technology** **Electronic Engineering** **Master**

Research Experience

2022.09 - 2023.10 **Intelligent guide system for the blind**

- Overall analysis of the gates of visually impaired user
- Developed signal processing algorithms and pattern recognition algorithms for system modeling
- Published patents and papers.

2023.11 - Now **Semantic communication system for 6G generation communication**

- Research on generative model-based semantic communication system and adaptive content modulation module for channel environment deterioration
- Study on automatic retransmission mechanism for channel deterioration situation

Personal Reasearch Skill

- Familiarity with C++ programming language, top 45% of leetcode weekly rankings
- Familiar with deep learning, computer vision and other related knowledge, proficient in the use of mainstream framework pytorch, tensorflow.
- Familiar with Linux operating systems, experience with kernel-level operations such as docker.
- Familiar with the fundamentals of the communications field, solid knowledge of Digital Communications, Digital Circuits and Logical Programming and other subjects

Awards

2022-2025	Harbin Institute of Technology Second Class Scholarship
2022	"Silver Prize in Heilongjiang Region "Internet Plus" Innovation Competition
2018-2021	Scholarship for three consecutive years (6 consecutive times with 40% coverage) at the university level, outstanding graduating seniors
2020	Provincial Third Prize of 2020 National College Student Mathematics Competition
2020	2020 Zhejiang University Students' Physics Innovation Competition School Level First Prize, 2020 Internet+ Competition School Level Second Prize

Publications

- **《Optical Fiber Pavement Blind Guiding Method Based on Distributed Optical Fiber Vibration Sensing》**
  Yaolang Liang; **Haoze Chang;** Lin Ma; Danyang Qin
  IEEE Conference on Global Communications **(GLOBECOM)**
- Applied for **2** national invention patents

Project Experience

2022.09 - 2023.10 **Intelligent guide system for the blind**

- **software development：** Integrated use of multiple programming languages to accomplish real-time system algorithms and deploy them to real systems

2020.03 - 2020.09 **Android positioning system demo**

- **software development：** Android-based development applications, complete the Baidu map APK call and integration, complete user positioning, location marking