Back to drowning-in-codes |. 13551710618 | bukalala174@gmail.com | yuan sekyoro.top | yue personal website

nu Oiluhao

Gender: male native place: Han Dynasty Year of birth: 2001 Semantics over Syntax. Build over Read. Composition over Inheritance.

education experience

Northwestern Polytechnical University Master in Computer Science an

The first author published the paper: <u>"CoRange: Collaborative Range-aware</u> Adaptive Fusion for Multi-Agent Perception" IEEE TIV

Student 1 has submitted a paper: "QCTF: A Quantized Communication and Transferable Fusion Framework for Multi-agent Collaborative Perception" IEEE T-ITS related code and published the relevant patents

Al small projec<u>t: GAN training and generate</u> avata<u>r | classicNets classic network</u> repetition | using Langchain, Transformers build LLM application | LoRA for image generation trainer

Technical Stack: C + +, Python (Gradio, langchain, huggingface-related libs)

	Northwestern Polytechnical ersity Bachelor of Computer Science and ology	Uni v-
	Bachelor of Computer Science and ology	Techn-

Major courses: Machine Intelligence and Learning Science | modern methods of artificial intelligence | Objectoriented System Methodology

Awards: field second-class scholarship | academic advanced individual | diligent learned advanced individual | outstanding college students

Project: The intelligent training and management platform for museum volunteers based on WeChat mini program was awarded the national college student innovation and entrepreneurship project

Develop " personal rehabilitation management monitoring small program" application soft

Technology stack: front end (JavaScript, React), back end (Flask, Express, Gin), client (Python, Qt, Electron) Others: GPA: 3.768/4.1 obtain postgraduate qualification | CET-4 | CET-6:602

Project and thesis experience.

Multi-agent collaborative sensing

Target detection, multi-agent collaboration, and autonomous driving

Project Introduction: In the multi-vehicle collaboration scenario, based on the multi-vehicle data set, improve the collaboration perception performance in the noise, delay and limited bandwidth scenario

Using point cloud encoder and Transformer feature fusion technology, the function of effectively avoiding object occlusion and expanding the field of vision in the multi-vehicle collaboration environment. This method improves the target detection accuracy and significantly reduces the traffic

The range attention mechanism introduces different confidence scores on objects in different regions, and combines the inter-agent and local information fusion technology to achieve the goal of improving the 3 D target detection accuracy in multi-agent cooperative perception. In addition, VQVAE is used to quantify multi-agent communication information to reduce communication. The relevant work was published as the first author in IEEE TIV, with the associated code address

Python OpenCOOD Transformer multimoding

Image fusion model for UFGAN

Image fusion, GAN

Project introduction: Unet combined with generative adversarial network (GAN) method is adopted to realize the fusion of infrared and visible images. By using the texture details of visible images and the clear performance of infrared images to occluded objects, the overall quality and information accuracy of the fusion image are improved

We have a deep understanding of classical neural networks, such as CNN, RNN, GAN, and further master the training methods of these networks. Code and related reports are open source to Github

GAN Image Fusion Pvthon

JavaGen

Java, Template generator, and Web development

Developing Spring Web projects often requires a series of template code, and building a template generator (similar to scaffolding) can better master the Web back-end development business Admidia-related code

Java SpringBoot

personal skills_

I am passionate about new technology, keen to learn new skills through practical project, to quickly master and apply new technology. Often by reading English papers and technical documents to track the latest industry, and familiar with a variety of programming languages and tools. Use programming to solve problems in life, for example, arxiv paper query, weather query, etc.

Understand C + + 17 / 20, be familiar with Linux programming, computer network, data structure and algorithm. Be willing to learn new knowledge.

Proficient in building applications with Python and front-end technology stack. For example, build AI applications with PyOt, diffusers, Flask, etc., including basic RAG and AI Agent, and Ollama local model drawing and writing software.

He often publishes technical articles and building services on his personal blogs and websites, such as building





2024/5

Xi ' an 2023 - 2026

Xi ': an 2019 - 2023

2023-Now

OSS map beds, using docker, building micro-services, etc.
Participate in open source projects and use efficiency tools, such as submitting PR for blink.cmp (a complete code insert for neovim) with neovim, and writing plug-ins for Wox (similar to Alfred on Windows).
• Technology Stack C + + | Python | JavaScript | Java | and more

Shu Qi uhao