

Zhicheng Guo

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Homepage: <https://gzcsudo.github.io>

Education

Xidian University

School of Artificial Intelligence

Major: Computer Science

Adviser: Licheng Jiao (IEEE Fellow, Fellow of Academia Europaea, CCF Fellow)

I spoke at the commencement ceremony as a graduate student representative.

Chengdu University of Technology

School of Information Science and Technology

Major: Electronic Information Science and Technology

Research

I'm currently working on :

- (1) generative diffusion model --- text-to-image generation, rectified flow (flow matching).
 - (2) large language model --- flash attention, fine-tuning, alignment, multi-modal transformer.
 - (3) graph theory, hypergraph theory, graph neural network, hypergraph neural network.
- I'm the reviewer of IEEE Transactions on Image Processing, NeurIPS 2022 and ICML 2022.

Publications

Multi-Scale Progressive Attention Network for Video Question Answering

Zhicheng Guo, Jiaxuan Zhao, Licheng Jiao, Xu Liu, Lingling Li

Accepted to ACL 2021

A Universal Quaternion Hypergraph Network for Multi-Modal Video Question Answering

Zhicheng Guo, Jiaxuan Zhao, Licheng Jiao, Xu Liu, Fang Liu

Accepted to TMM 2021 (IEEE Transactions on Multimedia)

A Spatial Hierarchical Reasoning Network for Remote Sensing Visual Question Answering

Zixiao Zhang, Licheng Jiao, Lingling Li, Xu Liu, Puhua Chen, Fang Liu, **Zhicheng Guo**

Accepted to TGRS 2023 (IEEE Transactions on Geoscience and Remote Sensing)

The Multi-Modal Video Reasoning and Analyzing Competition

Haoran Peng, He Huang, Li Xu, Tianjiao Li, Jun Liu, Hossein Rahmani, QiuHong Ke, **Zhicheng Guo**, Cong Wu

Accepted to ICCV 2021 Workshop

AI Competitions

ICCV 2021 : Multi-Modal Video Reasoning and Analyzing Competition

I won the **1st** place as the **first author**. Task: video question answering

CVPR 2021 : Chart Question Answering Challenge

I won the **2nd** place as the **first author**. Task: chart question answering

CVPR 2021 : FloodNet Challenge @ EARTHVISION 2021-VQA

I won the **1st** and **2nd** place as the **adviser**. Task: remote sensing image question answering

CVPR 2020 : VizWiz 2020 Grand Challenge

I won the **2nd** place as the **first author**. Task: visual question answering

ECCV 2020 : DramaQA Challenge 2020

I won the **2nd** place as the **first author**. Task: movie question answering

Programming Competitions

2018 ACM-ICPC Chinese Collegiate Programming Contest

I won the **Bronze Medal** as the **first author**.

2018 China Collegiate Programming Contest

I won the **Bronze Medal** as the **first author**.

2019 ICPC China National Invitational Programming Contest

I won the **Bronze Medal** as the **first author**.

2019 ACM The 11th Sichuan Provincial Programming Contest

I won the **Bronze Medal** as the **first author**.

2019 Group Programming Ladder Tournament

I won the **national third prize** as the **first author**.

2020 IEEEExtreme 14.0 Global Extreme Programming Competition

Among **4132 teams**, our global rank is **153**, and country rank is **39**.

I'm the **first author** of this 24-hour programming competition.

Math Competitions

2017 Contemporary Undergraduate Mathematical Contest in Modeling

I won the **national second prize** in China as the **first author**.

2017 Mathematical Contest In Modeling

I'm the **Meritorious Winner** as the **first author**.

2016 Mathematics Competition of Chinese College Students

I won the **Second Prize** of Sichuan Province.

Awards

Xidian University Postgraduate Spokesperson Nomination Award

Outstanding University Graduates in Shaanxi Province

Goodix Technology Scholarship

Postgraduate National Scholarship

Outstanding University Graduates in Sichuan Province

Excellent Voluntary Service in Poverty-alleviation Activity

Experience

Baidu Campus Elite Club

Baidu

As a member of the club, I set questions for programming competitions.

Captain of ACM-ICPC Competition Team

Chengdu University of Technology

During my undergraduate period, I formed the school's ACM-ICPC competition team.

As the team leader, I guided my classmates to participate in various programming competitions.

And I built the Online Judge (OJ) of my school.

Projects

A brief tutorial on artificial intelligence experiments

I participated in writing this book.

And I was responsible for the chapter on image super-resolution.

This book is now available for purchase on JD.com.

Eyeball Positioning System

Eyeball positioning is to find the position where the human eye looks at the screen.

We realized the eyeball positioning function on the computer device and applied it to our products.