Bingnan Li

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EDUCATION

ShanghaiTech University B.E in Computer Science and Technology • GPA: 3.89/4.00		Sep. 2020 – Jul. 2024 (Expected) Shanghai, China
• Ranking: 2/177(among major) 3/2	48(among school)	
CORE COURSEWORK		
 Computer Architecture I: A+ Computer Graphics I: A+ Artificial Intelligence I: A+ 	 Computer Vision II: A+ Introduction to Machine Learning: A Deep Learning: A 	 Digital Image processing: A Algorithm Design and Analysis: A Probability and Statistics I: A
PUBLICATIONS		
Gradient-Map-Guided Adaptive Domain Ger Bingnan Li, Zhitong Gao, Xuming He Machine Learning for Health (ML4H 2023)	neralization for Cross Modality MRI Segmentation	🔓 PDF 🌔 Code
Patents		
Segmentation methods, systems, devices a Xuming He, Bingnan Li, Zhitong Gao, Chinese Patent, Application Code: 202311386	nd media for cross-modal nuclear magnetic reson	ance images
Research Experiences		
Single Domain Generalization in Medical Image Segmentation Supervisor: Xuming He		Aug. 2022 – Nov. 2023 Shanghai, China
Domain-Robust Open-Vocabulary Segment	ation	Nov. 2023 – Present
Supervisor: Xuming He		Shanghai, China
• We aim to improve the domain general	ization capability of both seen and unseen classes.	
SELECTED COURSE PROJECTS		
 Multi-Resolution Isosurface Rendering (Con We visualized the Q-criteria of speed fill OpenVDB and OpenMP, which is efficie 	nputer Graphics I) elds around a sphere by Multi-Resolution Isosurface ent to run on CPU.	Report O Code e Rendering, our implementation is based on
Intelligence Strategy Exploration on Chines • We explored three intelligent strategies implementation includes Python and C	e Chess (Artificial Intelligence I) s, including MinMax Search, Monte-Carlo Tree Searc +++ versions. Extensive comparisons are conducted	Report O Code th, and Q-learning, on Chinese Chess. Our internally and with other AI models.
Exploration on Novel View Synthesis with G	enerative Models (Computer Vision II)	Report 🖓 Code
We explored the capabilities of three m Experiments are performed on SRN Sh	ainstream generative models (VAE, GAN, and Diffu apeNet dataset and metrics like PSNR and SSIM ar	sion) on Single image Novel View Synthesis. e reported.
TEACHING EXPERIENCES		
Teaching Assistant Mathematical Analysis II ShanghaiTech University		Sep. 2021 – Feb. 2022
Teaching Assistant Discrete Mathematics ShanghaiTech University		Feb. 2023 – Jun. 2023

ACTIVITIES & HONORS & AWARDS

Officer New Media Department in Student Union	Sep. 2020 – Sep. 2021
Team Leader first Sichuan Liang Shan social practice team	2021
Volunteer Shanghai Half Marathon	Apr. 2021
2020 Outstanding Officer of Student Union	2021
Social Practice, Outstanding Individual, The Most Outstanding Team	Oct. 2021
Industrial Practice, Outstanding Individual, The Most Outstanding Team	Oct. 2022
Honored student of the School of Information Science and Technology.	2021, 2022

TECHNICAL SKILLS

Languages: Python, C, C++, Matlab, RISC-V Developer Tools: JetBrains Pycharm, VS Code, Technologies/Frameworks: Linux, GPU Cluster, GitHub, PyTorch, Numpy, OpenCV