

XIANGTAO WANG

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EDUCATION

Hebei University of Technology, Tianjin, China 08/2021 – 05/2024 (expected)

M.S. in Biomedical Engineering, GPA: 3.85/4

North China University of Science and Technology, Hebei, China 08/2017 – 07/2021

B.Eng. in Electrical Engineering and Automation, GPA: 3.31/4

PUBLICATIONS & MANUSCRIPTS

Conference Papers

- **MPS-AMS: Masked Patches Selection and Adaptive Masking Strategy Based Self-Supervised Medical Image Segmentation** [PDF]
Xiangtao Wang, Ruizhi Wang, Tian Biao, Jiaojiao Zhang, Shuo Zhang, Shuo Zhang, Thomas Lukasiewicz, and Zhenghua Xu*.
ICASSP, 2023.
- **MvCo-DoT: Multi-View Contrastive Domain Transfer Network for Medical Report Generation** [PDF]
Ruizhi Wang, Xiangtao Wang, Zhenghua Xu*, Wenting Xu, Junyang Chen, and Thomas Lukasiewicz.
ICASSP, 2023.

Journal Papers

- **AMLPL: Adaptive Masking Lesion Patches for Self-supervised Medical Image Segmentation** [PDF]
Xiangtao Wang, Ruizhi Wang, Jie Zhou, Zhenghua Xu*, and Thomas Lukasiewicz.
Submitted to MIA.
- **C²M-DoT: Cross-modal consistent multi-view medical report generation with domain transfer network** [PDF]
Ruizhi Wang, Xiangtao Wang, Jie Zhou, Zhenghua Xu*, and Thomas Lukasiewicz.
Submitted to MIA.
- **SW-Seg: Semi- and Weakly-Supervised Learning for Accurate Medical Image Segmentation Using Inaccurate Scribble Annotations** [PDF]
Biao Tian, Zhenghua Xu*, Xiangtao Wang, Shuo Zhang, Hening Wang, Yuefu Zhan, and Thomas Lukasiewicz.
Under review of TCSVT.
- **Collaborative Attention Guided Multi-Scale Feature Fusion Network for Medical Image Segmentation** [PDF]
Zhenghua Xu*, Biao Tian, Shijie Liu, Xiangtao Wang, Di Yuan, Junhua Gu, Junyang Chen, Thomas Lukasiewicz, Victor C. M. Leung.
Minor revision of TNSE.

EXPERIENCE

Intelligent Healthcare and Big Data Team, Hebei University of Technology Sept. 2021 – Present
Graduate Research Supervisor: Prof. Zhenghua Xu
Self-supervised and medical image segmentation

SELECTED HONORS & REWARDS

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| • Bronze Prize, the 8th National Undergraduate Biomedical Engineering Innovation Design Competition | 2023 |
| • 2st place, Graduate Academic Scholarship of Class 1 (top 10%) | 2022 |
| • Merit Student (top 10%) | 2022 |
| • Bronze Prize of the 7th National Undergraduate Biomedical Engineering Innovation Design Competition | 2022 |
| • Silver Prize of the 12th National Undergraduate Mathematics Contest (non-mathematics) | 2020 |
| • Bronze Prize of the 8th APMCM Asia-Pacific University Mathematical Contest in Modeling | 2018 |

SKILLS

Tools and Frameworks: Git, L^AT_EX, PyTorch, TensorFlow