

Yurong Chen

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Research area: Medical Imaging Processing;
Probability Machine Learning

Education

2020.08 ~ Now

Ph.D

➤ National Engineering Lab of Hunan University

2019.08 ~ 2020.06 **Master of Science**

- **➤** University of Pittsburgh
- ➤ GPA:3.68/4.0
- ➤ Majored in Electrical & Computer Engineering

2015.09 ~ 2019.06 **Bachelor of Engineering**

- ➤ Changsha University of Science & Technology
- ➤ Majored in Electrical & Information Engineering
- ➤ CUST Academic Year 15-16/16-17/17-18 Third-Class Scholarship

Publication

2021.08 Y. Chen, H. Zhang, Y. Wang, et al. "Towards to Robust and Generalized Medical Image Segmentation Framework," **Submitted to** *IEEE Trans. on Medical Imaging*, arXiv preprint arXiv:2108.03823.

2021.08 Y. Chen, H. Zhang, Y. Wang, et al. "P-WAE: Generalized Patch-Wasserstein Autoencoder for Anomaly Screening," **Submitted to** *IEEE Trans. on Imaging Processing*, arXiv preprint arXiv:2108.03815, 2021.

2021.08 Y. Chen, H. Zhang, Y. Wang, et al. "D-BIN: A Generalized Disentangling Batch Instance Normalization for Domain Adaptation," in *IEEE Trans. on Cybernetics*, accepted, 2021.

2021.07 H. Zhang, Y. Song, Y. Chen*, et al. "MRSDI-CNN: Multi-Model Rail Surface Defect Inspection System Based on Convolutional Neural Networks," in *IEEE Transactions on Intelligent Transportation Systems*, 2021.

2020.11 **Y. Chen**, H. Zhang, Y. Wang, et al. "MAMA Net: Multi-Scale Attention Memory Autoencoder Network for Anomaly Detection," in *IEEE Trans. on Medical Imaging*, vol. 40, no. 3, pp. 1032-1041, 2021.

2020.07 Y. Chen. "Graph-embedding Enhanced Attention Adversarial Autoencoder," *University of Pittsburgh*, 2020.

2020.04 Y. Chen H. Tang, L. Guo, et al. "A Generalized Framework of Pathlength Associated Community Estimation for Brain Structural Network," International Symposium on Biomedical Imaging (ISBI), pp. 288-291, 2020.

2019.12 J. C. Peven, Y. Chen, L. Guo, et al. "The oblique effect: The relationship between profiles of visuospatial preference, cognition, and brain connectomics in older adults," Neuropsychologia, vol. 135, pp.107236, 2019.

2019.06 H. Zhang, Y. Chen*, Y. Song, et al. "Automatic kidney lesion detection for CT images using morphological cascade convolutional neural networks," *IEEE Access*, vol. 7, pp. 83001-83011, 2019.

2019.02 Z. Xiong, H. Zhang, Y. Chen, "Deep Ensemble Learning Network for Kidney Lesion Detection," Chinese Automation Congress (CAC), pp. 3841-3846, 2019.

Academic Experiences

Academic Experiences	
2021.06 ~ 2021.08	Research about Pre-training on Medical Imaging Segmentation • Advisor: Prof. Hui Zhang, Yaonan Wang • Place: Hunan University
2021.03 ~ 2021.05	Research about Chest X-ray/OCT Anomaly Screen • Advisor: Prof. Hui Zhang, Yaonan Wang • Place: Hunan University
2020.11 ~ 2021.02	Research about Cells Image Classification via Domain Adaptation • Advisor: Prof. Hui Zhang, Yaonan Wang • Place: Hunan University
2020.06 ~ 2020.10	Research about Chest X-ray Anomaly Detection via Autoencoder • Advisor: Prof. Hui Zhang, Yaonan Wang • Place: Hunan University
2019.11 ~ 2020.02	 Research about Community Detection via Graph Network Advisor: Assis. Prof. Liang Zhan, Prof. Heng Huang Place: University of Pittsburgh
2019.08 ~ 2019.11	 Research about Estimation Brain Structural Network Advisor: Assis. Prof. Liang Zhan, Prof. Heng Huang Place: University of Pittsburgh
2018.11 ~ 2019.06	Research about Kidney Lesion Detection • Advisor: Prof. Hui Zhang

• Place: Changsha University of Science & Technology

2018.08 ~ 2019.04 Research about Brain-computer Interface (BCI)

- Advisor: Assis. Prof. Pengfei Wei
- Place: Shenzhen Institutes of Advanced Technology Chinese

Academy of Science

2017.04 ~ 2017.05 Design of the Sweeping Robot based on the Raspberry Pi

- Advisor: Prof. Yingjian Wang
- Place: Changsha University of Science & Technology

$2016.12 \sim 2017.03$ Design of the Traffic Lights Control System

- Advisor: Lecturer Hongjiang Ma
- Place: Changsha University of Science & Technology

Extra-curricular Activities

 $2017.05 \sim 2018.12$ Team captain of CUST Swimming Team

2015.12 ~ 2016.10 Team captain of CUST Scientific Project Competition Team

2015.10 ~ 2016.10 Deputy Director of CUST Students Union Academic Department