Hongcheng Han

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🌐 http://hongchenghan.github.io
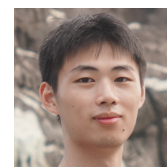
Biography

Hongcheng Han received the degree of B.Eng. in the School of Energy and Power Engineering, Xi'an Jiaotong University, Xi'an, China in 2020. Since then, he is studying for Ph.D. degree in the Institute of Artificial Intelligence and Robotics, Xi'an Jiaotong University. His interests focus on AI-based medical image analysis.

Education

2022 – now   📑 **Ph.D. Candidate, Control Science and Engineering**
Institute of Artificial Intelligence and Robotics, Xi'an Jiaotong University, Xi'an, China

2020 – 2022   📑 **M.Eng., Software Engineering**
School of Software Engineering, Xi'an Jiaotong University, Xi'an, China

2016 – 2020   📑 **B.Eng., Energy and Power Engineering**
College of Energy and Power Engineering, Xi'an Jiaotong University, Xi'an, China

Research Publications

Journal Articles

1. **H. Han**, Z. Tian, Q. Guo, J. Jiang, J. Wang, and S. Du, "B-ultrasound-to-elastography translation via hierarchical structural consistency learning for thyroid cancer diagnosis," *IEEE Journal of Biomedical and Health Informatics*, 2024, (Accepted).

2. **H. Han**, Y. Lin, Q. Guo, *et al.*, "Dermoscopic image classification for multi-modal medical corpus," *Journal of Northwest University (Natural Science Edition)*, vol. 53, no. 3, pp. 2817–2830, 2023.

3. X. Wang[#], **H. Han**[#], M. Xu, *et al.*, "STNet: Shape and texture joint learning through two-stream network for knowledge-guided image recognition," *Frontiers in Neuroscience*, vol. 17, p. 1 212 049, 2023, (Co-first author and student first author).

4. D. Zhang[#], **H. Han**[#], S. Du, *et al.*, "MPMR: Multi-scale feature and probability map for melanoma recognition," *Frontiers in Medicine*, vol. 8, p. 775 587, 2022, (Co-first author).

Conference Proceedings

1. **H. Han**, Z. Tian, Q. Guo, J. Jiang, J. Wang, and S. Du, "HSC-T: B-ultrasound-to-elastography translation via hierarchical structural consistency learning for thyroid cancer diagnosis," in *IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI)*, (Accepted, oral presentation), IEEE, 2024. 🔗 URL: https://openreview.net/forum?id=EwSohBIcje.

2. **H. Han**, Z. Tian, Y. Liu, S. Li, D. Zhang, and S. Du, "Gsa-gaze: Generative self-adversarial learning for domain generalized driver gaze estimation," in *2023 IEEE 26th International Conference on Intelligent Transportation Systems (ITSC)*, (One of the most influential conferences identified by Xi 'an Jiaotong University), IEEE, 2023, pp. 1610–1615.

3. **H. Han**, S. Du, D. Zhang, H. Long, and Y. Guo, "Precise dental staging method through panoramic radiographs based on deep learning," in *2020 Chinese Automation Congress (CAC)*, IEEE, 2020, pp. 377–386.

Skills

Languages	◼	Good reading, writing and speaking competencies for English and Mandarin Chinese.
Research	◼	Machine learning algorithm design, digital image processing.
Coding	◼	Python, Pytorch, OpenCV, Scikit-learn, Jupyter notebook, LaTeX.
Misc.	◼	Graphic design, video editing, 3D modeling.

Awards and Achievements

Awards in Science and Technology

2021	◼	**2nd Prize**, Asia and Pacific Mathematical Contest in Modeling (APMCM).
2019	◼	**Overall Championship**, SAE International College Aircraft Design Competition (Micro Class).
2017	◼	**1st Prize**, China International Aircraft Design Challenge (CADC).

Awards in Innovation and Entrepreneurship

2024	◼	**2nd Prize**, 19th China Graduate Student Electronic Design Competition Business Plan Special Competition.
2021	◼	**1st Prize**, 16th China Graduate Student Electronic Design Competition Business Plan Special Competition.
	◼	**3rd Prize**, 9th Xi'an Jiaotong University Entrepreneurship Practice Competition.

Scholastic Achievements

2024	◼	**Outstanding Student Award**, Xi'an Jiaotong University.
	◼	**1st-class Academic Scholarship**, Xi'an Jiaotong University.
2023	◼	**1st-class Academic Scholarship**, Xi'an Jiaotong University.
2022	◼	**1st-class Academic Scholarship**, Xi'an Jiaotong University.
2021	◼	**Outstanding Student Award**, Xi'an Jiaotong University.
	◼	**1st-class Academic Scholarship**, Xi'an Jiaotong University.
2020	◼	**1st-class Freshman Scholarship**, Xi'an Jiaotong University.