Resume of Cong WU

Basic Information
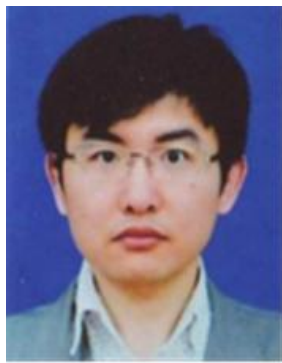
School :	School of Computer Science
Gender：	Male
Date of Birth：	198204
Title：	Associate Professor
Education：	Ph.D of Information Engineering
Tutor：	Master degree
Email:	oidipous@hbut.edu.cn
Interest of research:	Image Processing, Deep Learning, Artificial Intelligence

Academic Background

From September 2000 to July 2004, Huazhong University of Science and Technology, Bachelor's degree in Computer Science;

From April 2005 to March 2007, Hiroshima University, Master's degree of Information Engineering;

From April 2007 to March 2012, Wuhan University, Ph.D of Information Engineering.

Oversea visiting

Enrollment Information

1. Enrollment Discipline: Master of Computer Science
2. Research direction: Image Processing, Deep Learning, Artificial Intelligence
3. Enrollment Year: 2023-2024

Representative Projects

1. Hubei Provincial Government Natural Science Foundation project " The digital modeling of Traditional Chinese Medicine -looking eye syndrome differentiation theory ", Hubei Province, Project leader.
2. Development of vibration detection software based on machine vision and machine learning, Project leader.
3. Development of target tracking and detection software for moving parts of flow production line based on machine vision, Project leader.
4. Robot grinding and its control system design, Project leader.
5. 3D modeling and 3D simulation of cutter roll, Project leader.

Representative Articles

1. **Cong Wu**; Shijun Li; Xiao Liu; Fagang Jiang; Bingjie Shi. DMs-MAFM +

EfficientNet: a hybrid model for predicting dysthyroid optic neuropathy, Medical & Biological Engineering & Computing，2022, 6(11): 3217-3230

2. **Cong Wu**; Cheng Long; Shijun Li; Junjie Yang; Fagang Jiang; Ran Zhou. MSRAformer: Multiscale spatial reverse attention network for polyp segmentation, Computers in Biology and Medicine, 2022

3. Wei Li; **Cong Wu**; Yuqing Cheng; Zhi Yang. DM-Net:a Depth-separable convolution and Multi-Scale vascular segmentation Network for blood vessel segmentation, 2022 the 5th International Conference on Intelligent Control and Computing (ICICC 2022,EECR 2022), Nanjing, China.

4. **Cong Wu**; Xiao Liu; Shijun Li; Cheng Long. Coordinate Attention Residual Deformable U-Net for Vessel Segmentation. ICONIP 2021: International Conference on Neural Information Processing,Bali, Indonesia.

5. **Cong Wu**; Yuqing Cheng; Wei Li; Zhi Yang; Zhenyu Lu. DFUNET - A Residual Network for Retinal Vessel. ICCSE 2021 - IEEE 16th International Conference on Computer Science and Education, Lancaster, United Kingdom.

6. **Cong Wu**; YanLong Liu; YiXuan Zou. Preliminary Study on Deep-learning for Retinal Vessels Segmentation. ICCSE2020 - The 15th International Conference on Computer Science & Education, Delft, Netherlands.

7. **Cong Wu**; Dong Xia; Jicheng Jin; Zhi Yang. Classification of diabetic retinopathy based on DSIRNet. 14th International Conference on Computer Science &Education (ICCSE 2019), Toronto, Canada.

8. **Cong Wu**; Yixuan Zou. U-GAN: Generative Adversarial Networks with U-Net for Retinal Vessel Segmentation. 14th International Conference on Computer Science &Education (ICCSE 2019), Toronto, Canada.

9. **Cong Wu**. Application of deep learning in the identification of TAO Proceedings of SPIE - The International Society for Optical Engineering, 2017.10.28, 10610(2018）.

10. **Cong Wu**. Nighttime images fusion based on Laplacian pyramid Proceedings of SPIE - The International Society for Optical Engineering, 2017.10.28, 10607(2018).