Yurong Chen

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Research interests: Low-level Image Processing
Snapshot Spectral Imaging
Computational Imaging

Education

2021.08~ Now	**Ph.D student**
	• <u>Hunan University</u> (U.S.News #168 in Best Global Universities) & National Engineering Research Center of Robot Visual Perception and Control Technology
2019.08 ~ 2020.06	**Master (by thesis)**
	• <u>University of Pittsburgh</u> (U.S.News #45 in Best Global Universities) GPA:3.68/4.0 Majored in Electrical & Computer Engineering (ECE)
2015.09 ~ 2019.06	**Bachelor**
	• <u>**Changsha University of Science & Technology**</u> Majored in Electrical & Information Engineering CUST Academic Year 2016/2017/2018 Scholarship

Publications

[1] **Y. Chen**, Y. Wang, H. Zhang, "Prior Image Guided Snapshot Spectral Compressive Imaging," *IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI)*, 2023 [During Ph.D].

[2] **Y. Chen**, H. Zhang, Y. Wang, et al. "Flex-DLD: Deep Low-rank Decomposition Model with Flexible Priors for Hyperspectral Image Denoising and Restoration," *IEEE Trans. on Image Processing (TIP)*, 2023 [During Ph.D].

[3] **Y. Chen**, Y. Wang, H. Zhang, "Prior Images Guided Generative Autoencoder Model for Dual-Camera Compressive Spectral Imaging," *lEEE Trans. Circuits and Systems for Video Technology (TCSVT)*, 2024 [During Ph.D].

[4] **Y. Chen**, H. Zhang, Y. Wang, et al., "D-BIN: A Generalized Disentangling Batch Instance Normalization for Domain Adaptation," *IEEE Trans. on Cybernetics (TCyber)*, 2023 [During Ph.D].

[5] **Y. Chen**, H. Zhang, Y. Wang, et al., "ADMM-DSP: A Deep Spectral Image Prior for Snapshot Spectral Image Demosaicing," *IEEE Trans. on Industrial Informatics (TII),* 2023 [During Ph.D].

[6] **Y. Chen**, H. Zhang, Y. Wang, et al., "MAMA Net: Multi-Scale Attention Memory Autoencoder Network for Anomaly Detection," *IEEE Trans. on Medical Imaging (TMI)*, 2021 [During Ph.D].

[7] **Y. Chen**, H. Zhang, Y. Wang, et al., "TAE-Seg: Generalized Lung Segmentation via Tile-wise Autoencoder Enhanced Network," *IEEE Trans. on Instrumentation and Measurement (TIM)*, 2022 [During Ph.D].

[8] **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)*, 2020 [During Master].

[9] 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*, 2019 [During Master].

[10] H. Zhang, **Y. Chen***, Y. Song, et al., "Automatic Kidney Lesion Detection for CT Images using Morphological Cascade Convolutional Neural Networks," *IEEE Access*, 2019 [During Undergraduate].

[11] H. Zhang*, Y. Song, **Y. Chen***, et al., "MRSDI-CNN: Multi-Model Rail Surface Defect Inspection System Based on Convolutional Neural Networks," *IEEE Trans. on Intelligent Transportation Systems (TITS)*, 2021 [During Undergraduate].

[12] A. Yin, Y. Wang, **Y. Chen**, et al., "SSAPN: Spectral-Spatial Anomaly Perception Network for Unsupervised Vaccine Detection," *IEEE Trans. on Industrial Informatics (TII)*, 2022 [During Ph.D].

[13] H. Zhang, L. Wu, **Y. Chen**, et al., "Attention-guided Multitask Convolutional Neural Network for Power Line Parts Detection," *IEEE Trans. on Instrumentation and Measurement (TIM)*, 2022 [During Ph.D].

Honor

[1] *IEEE Outstanding Leadership Award as Publicity Chair.*

[2] *Award by CSIG Graduate Academic Forum.*