Yurong Chen

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

Education

2021.08~ Now **Ph.D student**

- **Hunan University** (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)**

- **University of Pittsburgh** (U.S.News #45 in Best Global Universities)
  GPA:3.68/4.0
  Majored in Electrical & Computer Engineering (ECE)

2015.09 ~ 2019.06 **Bachelor**

- **Changsha University of Science & Technology**
  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 (TPMAI)***, 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," ***IEEE 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] 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].

- **On-going research works:**

[1] **Y. Chen**, Y. Wang, H. Zhang, "MoLi: Model-inspired Lightweight Untrained Neural Network Prior for Snapshot Computational Spectral Imaging," (submitted to *IEEE TPMAI*, Major revision).

[2] **Y. Chen**, H. Zhang, Y. Wang, "Hyperspectral Images Pixel-wise Classification via Adaptive Spectral and Spatial Feature Learning," (submitted to *IEEE TIM*, under review).

Honor

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

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