Huang Daolang

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EDUCATIONAL BACKGROUND

Aalto University, GPA: 4.75/5 Sept. 2020 - Present

- Master of Science in Machine Learning, Data Science and Artificial Intelligence (Macadamia)

Jinan University, GPA: 86.9/100 Sept. 2016 - July 2020

- Bachelor of Engineering in Computer Science and Technology
- Honorary Awards: First-class Scholarship for Outstanding Students of JNU, 2018

PUBLICATION

- Zheng R., Zhang, Y., **Huang, D.**, & Chen, Q. (2020 August). Sequential Convolution and Runge-Kutta Residual Architecture for Image Compressed Sensing. In *European Conference on Computer Vision 2020* (pp. 232-248)
- Zheng, R., **Huang**, **D.** (2020 January). Convolutional Compressed Learning with Knowledge Distillation. Manuscript submitted for publication

RESEARCH & PROJECT EXPERIENCE

Image Compressed Sensing Research Nov. 2019 - Mar. 2020

- Proposed Runge-Kutta Convolutional Compressed Sensing Network (RK-CCSNet) and achieved state-of-the-art performance in deep compressed sensing
- Paper accepted by European Conference on Computer Vision 2020 (ECCV 2020)

Music and Audio Information Retrieval using Deep Learning Oct. 2020 - Present

- Develop multi-label auto-tagging systems that are robust to acoustically challenging conditions using music and audio
- Explore different deep learning architectures, as well as data augmentation techniques, to improve the performance of specific tasks for acoustically challenging scenarios

Convolutional Compressed learning Research July 2019 - Nov. 2019

- Utilized the convolution kernel to replace the vectorized linear projection to retain the spatial feature of images and used knowledge distillation to improve the model by knowledge transfer from fully observed model to partial observed model
- Achieved state-of-the-art results on the CIFAR-10 and CIFAR-100 datasets under the same compressed rate

Plant Pathology 2020 - CVPR Fine-Grained Visual Categorization (FGVC7) May 2020 - June 2020

- Kaggle fine-grained visual categorization competition to predict plant pathology
- Ranked 17th/23rd in Public/Private Leaderboard (Top 1%)

Biochemical System Research May 2019 - July 2019

- Created a model that can replicate the behavior of the target system by quantitatively optimizing the kinetic rate to fit the concentration rate curve of the targeted biochemical reactant through the back-propagation technique
- Assumed the complex reactants in the synthetic model, found the potential reaction of the target biochemical system

WORK EXPERIENCE

Neuedu Education Technology Co., Ltd. June 2019 - Aug. 2019

- Summer internship, Python developer

Jinan University - University of Birmingham Joint Institute at JNU Feb. 2020 - June 2020

- Teaching Assistant of course “C Programming”

SKILLS & LANGUAGES

- Machine learning, Computer vision, Audio signal processing, Music information retrieval, Python, Java, C, TensorFlow, PyTorch, Music production
- English (fluent), Mandarin (native)