Yuzhe Yang (Carlisle)

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Education

University of Southampton, Southampton, United Kingdom 2019.09 – 2020.11

MSc. in Artificial Intelligence (AI) with Distinction degree.

China University of Mining and Technology, Jiangsu, China 2015.09 – 2019.06

B.S. in Electronics and Information Engineering (EE) with upper second class.

Work Experiences

OPPO Research Institute, Shanghai, China 2021.01 – Now

Computer Vision algorithm engineer

Research on image aesthetics quality assessment, representation learning (including semi-/self-/multi-modal learning) and knowledge distillation.

CUMT, Image Perception and Processing Lab Xuzhou, Jiangsu, China 2018.06 – 2019.07

Intern at Multimedia Quality Assessment Group Supervisor: Prof. Leida Li

Research on perceptual image aesthetic quality assessment and aesthetic enhancement.

Publications

[1] T. Song, L. Li, J. Wu, **Y. Yang**, Y. Li, Y. Guo and G. Shi, Knowledge-Guided Blind Image Quality Assessment with Few Training Samples, in IEEE Transactions on Multimedia, 2022

[2] Y. Huang, L. Li, **Y. Yang**, Y. Li and Y. Guo, Explainable and Generalizable Blind Image Quality Assessment via Semantic Attribute Reasoning, in IEEE Transactions on Multimedia, doi: 10.1109/TMM.2022.3225728.

[3] Li, Y., **Yang, Y.**, Li, H., Chen, H., Xu, L., Li, L., Li, Y. and Guo, Y. (2022, October). Transductive Aesthetic Preference Propagation for Personalized Image Aesthetics Assessment. In Proceedings of the 30th ACM International Conference on Multimedia (pp. 896-904).

[4] Shen, Y., Xu, L., **Yang, Y.**, Li, Y., and Guo, Y. (2022). Online Distillation with Mixed Sample Augmentation. (Arxiv available.)

[5] Li, L., Duan, J., **Yang, Y.**, Xu, L., Li, Y., and Guo, Y. (2022, July). Psychology inspired model for hierarchical image aesthetic attribute prediction. In 2022 IEEE International Conference on Multimedia and Expo (ICME) (pp. 1-6). IEEE.

[6] **Yang, Y.**, Xu, L., Li, L., Qie, N., Li, Y., Zhang, P., and Guo, Y. (2022). Personalized Image Aesthetics Assessment with Rich Attributes. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (pp. 19861-19869).

[7] Shen, Y., Xu, L., **Yang, Y.**, Li, Y., and Guo, Y. (2022). Self-Distillation from the Last Mini-Batch for Consistency Regularization. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (pp. 11943-11952).

[8] Zhu, H., Zhou, Y., Yao, R., Wang, G., and **Yang, Y.** (2022). Learning image aesthetic subjectivity from attribute-aware relational reasoning network. Pattern Recognition Letters, 155, 84-91.

[9] Hu, B., Wang, S., Li, L., Leng, J., **Yang, Y.**, and Gao, X. (2022). Hierarchical Discrepancy Learning for Image Restoration Quality Assessment. Signal Processing, 108595.

[10] Li, L., Zhou, Y., Gu, K., **Yang, Y.**, and Fang, Y. (2019). Blind realistic blur assessment based on discrepancy learning. IEEE Transactions on Circuits and Systems for Video Technology, 30(11), 3859-3869.

[11] Li, L., **Yang, Y.**, and Zhu, H. (2019, June). Naturalness Preserved Image Aesthetic Enhancement with Perceptual Encoder Constraint. In Proceedings of the 2019 on International Conference on Multimedia Retrieval (pp. 364-372).