香港浸會大學
HONG KONG BAPTIST UNIVERSITY

DEPARTMENT OF
COMPUTER SCIENCE
計算機科學系

ONLINE SEMINAR
2022 SERIES

Department of Computer Science

Dr. Shengfeng He

Associate Professor
School of Computer Science and Engineering
South China University of Technology

Date: 8 September 2022 (Thursday)
Time: 10:00am – 11:00am
Registration: http://bit.ly/bucs-ereg

(*Zoom details will only be provided to registrants)

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Towards Interpreting and Reusing Generative Models

ABSTRACT

Recent progress in deep generative models such as Generative Adversarial Networks (GANs) has enabled synthesizing photo-realistic images, such as faces and scenes. However, it remains much less explored on what has been learned in the deep generative representation and why diverse realistic images can be synthesized. In this talk, I will present our recent series of works on interpreting and utilizing the latent space of the GANs. Identifying these semantics not only allows us to better understand the inner working of the deep generative models but also facilitates versatile image editings. I will also talk about the inverse problem (how to invert a given image into the latent code) and reusing the generative model for non-generation tasks.

BIOGRAPHY

Dr. Shengfeng He is an associate professor at the School of Computer Science and Engineering, South China University of Technology. He received his Ph.D. from the City University of Hong Kong in 2015. His research interests span the fields of computer vision, visual media understanding, and generative models. He has published more than 100 research papers, including 52 CCF Tier-A papers and 37 IEEE/ACM Transactions papers, in top venues like TPAMI, IJCV, CVPR, ICCV, and NeurIPS. He has won awards such as Guangdong Young Top-notch Talents (2018), ACM Guangzhou Star (2019), and CCF-Tencent Open Fund Excellence Award (2020). He is a senior member of IEEE and CCF. He serves as an associate editor of Neurocomputing (impact factor 5.779).

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