



Prof. Lei Zhen

Chinese Academy of Sciences, China

Zhen Lei is a professor with the National Laboratory of Pattern Recognition (NLPR), Institute of Automation, Chinese Academy of Sciences. He has published more than 190 papers in international journals and conferences, including IEEE TPAMI/TIP/TIFS/CVPR/ICCV/ECCV, which have been cited more than 17000 times (by Google Scholar, with H-index: 64). He holds 18 invention patents and has drawn up 7 national/industry standards. His research interests are in computer vision, pattern recognition, image processing, video analytics and biometrics. He is the associate editor of Pattern Recognition, Neurocomputing and IET computer vision. He served as an area chair of IJCB, ICB, BATS, FGR etc. He has won the best paper and challenges in international conferences 10+ times. He is the winner of 2019 IAPR YOUNG BIOMETRICS INVESTIGATOR AWARD. He is a senior member of the IEEE and CCF.

Speech Title: "Facial Shape Recovery from a Single Image"

Abstract: 3D facial shape plays an important role in many applications like facial makeup, facial reenactment, virtual try-on, face synthesis etc. How to recover 3D facial shape from a single image is a challenging problem. I will firstly introduce the dense 3D shape recovery method from a single face image. With the prior knowledge of 3D morphable model, we successfully propose a novel regression framework which makes a good balance among speed, accuracy and stability. The proposed method runs at over 50fps on a single CPU core and outperforms other state-of-the-art heavy models simultaneously. In the second part, I will also simply introduce the 3D face decomposition technique in face forgery detection application.