Tel: +86 13011177268
liujin@iie.ac.cn
Date of birth: March 2,1996
Personal Homepege
Google Scholar, Github

Jin Liu

EDUCATION

University of Chinese Academy of Sciences Beijing, China
Institute of Information Engineering *Sep.2018 - present*

- Doctor of Cyberspace Security, Research interests include computer vision, generative models, image and video synthesis, especially in face reenactment and talking head generation.

Beijing Jiaotong University Beijing, China
School of Computer and Information Technology *Sep.2014 - Jun.2018*

- Bachelor of Information Security (Security Technology), CET-6: 533

PUBLICATIONS

[1] **Liu J**, Wang X, Fu X, et al. MFR-Net: Multi-faceted Responsive Listening Head Generation via Denoising Diffusion Model (**MM 2023, CCF-A**, Using denoising diffusion model and designed Feature Aggregation Module to achieve the responsive listening head generation task.)

[2] **Liu J**, Wang X, Fu X, et al. FONT: Flow-guided One-shot Talking Head Generation with Natural Head Motions (**ICME 2023, CCF-B**. Improving the naturalness and diversity of talking head generation using a CVAE-based pose prediction module and a flow-guided generator.)

[3] **Liu J**, Wang X, Fu X, et al. OPT: One-shot Pose-Controllable Talking Head Generation (**ICASSP 2023, CCF-B**, Designing the Audio Feature Disentanglement Module to solve the identity mismatch problem and achieve explicit pose control over generated talking head videos.)

[4] **Liu J**, Chen P, Wang X, Fu X M, Dai J and Han J Z. 2022. Critical review of human face reenactment methods. (**Journal of Image and Graphics 2022, CCF-B**, Chinese review about face reenactment, introducing current works, analyzing existing problems and summarizing future development direction.)

[5] **Liu J**, Chen P, Liang T, et al. Li-Net: Large-Pose Identity-Preserving Face Reenactment Network (**ICME 2021, CCF-B**, Solving the identity mismatch and visual artifact problem in large-pose scenarios by proposing the Landmark Transformer and generating face pose and expression separately.)

[6] Chen P, **Liu J**, Liang T, et al. Dlfmnet: End-to-end detection and localization of face manipulation using multi-domain features (**ICME 2021, CCF-B**, Proposing an end-to-end framework for detection and localization of face manipulation, avoiding intermediate processes like image cropping and feature re-extraction.)

[7] Chen P, **Liu J**, Liang T, etal. Fsspotter: Spotting face-swapped video by spatial and temporal clues (**ICME 2020, CCF-B**, Proposing the Spatial Feature Extractor and the Temporal Feature Aggregator to explore rich spatial and temporal information in the video simultaneously for deepfake detection.)

COMPETITIONS

Deepfake Detection Challenge Dec.2019 - Apr.2020

- Introduction: organized by Facebook at a cost of 10 million US dollars. It built a super-large-scale deepfake video dataset, attracting 2,265 teams from all over the world to participate, so as to promote the research of related deepfake detection technologies.
- Rank: 9/2265 in the public list, 81/2265 in the private list.
- Main work: Data pre-processing, data augmentation, deepfake work survey, and model construction.

MISCELLANEOUS

- 2020, 2022 Outstanding student leaders of the University of Chinese Academy of Sciences
- 2019,2020,2021,2022,2023 Merit Student of University of Chinese Academy of Sciences
- 2018, Excellent Scholarship for Undergraduates, University of Chinese Academy of Sciences
- 2018, Outstanding Graduates of Beijing, Ministry of Education of China
- 2014, National Scholarship (top 1%), Ministry of Education of China