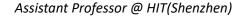
SHAO, Rui





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(Birthday: 1992.12)

Education —

Doctor of Philosophy

Hong Kong Baptist University

— Department of Computer Science //2017-2021

• Bachelor of Science

University of Electronic Science and Technology of China

—— School of Information and Communication Engineering // 2011-2015

High School

Shenzhen Foreign Languages School

// 2008-2011

Research

• Nanyang Technological University, Singapore (2022 U.S. New Ranking: 33) // 2021 – 2023 Research fellow

Advisor: Prof. Ziwei Liu, Prof. Chen Change Loy

(Prof. Ziwei Liu serves as an Associate Editor of International Journal of Computer Vision; Prof. Chen Change Loy serves as an Associate Editor of International Journal of Computer Vision and IEEE Transactions on Pattern Analysis and Machine Intelligence)

Hong Kong Baptist University, Hong Kong, China

//2017-2021

Ph.D

Advisor: <u>Prof. Pong C. Yuen</u> (Chair Professor; IAPR Fellow)

• Johns Hopkins University, Baltimore, U.S. (2022 U.S. New Ranking: 9) // 2020.02 – 2020.07 Visiting scholar

Advisor: Prof. Vishal M Patel

(Associate Editor of IEEE Transactions on Pattern Analysis and Machine Intelligence)

SenseTime, Shenzhen, China
 Researcher

// 2021.07 – 2021.11

Publication [Google Scholar]

Research Direction: Multi-Modal Learning and its Trustworthy Issues

First Author Papers:

Journal Papers:

- Rui Shao, Pramuditha Perera, Pong C. Yuen, Vishal M. Patel. "Open-set Adversarial Defense with Clean-Adversarial Mutual Learning". *International Journal of Computer Vision (IJCV)*, 2022.
 - (JCR Q1; Impact Factor: 13.369; CCF-A; Top Journal in Computer Vision)
- Rui Shao, Pramuditha Perera, Pong C. Yuen, Vishal M. Patel. "Federated Generalized Face Presentation Attack Detection". *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2022.
 - (SCI Q1; Impact Factor: 14.255; CCF-B; Top Journal in Artificial Intelligence)
- Rui Shao, Xiangyuan Lan, Pong C. Yuen. "Joint Discriminative Learning of Deep Dynamic Textures for 3D Mask Face Anti-spoofing". *IEEE Transactions on Information Forensics and Security (TIFS)*, 2019.
 - (SCI Q1; Impact Factor: 7.231; CCF-A; Top Journal in Security of Artificial Intelligence)
 - **Rui Shao**, Xiangyuan Lan. "Adversarial Auto-encoder for Unsupervised Deep Domain Adaptation". *IET Image Processing*, 2019. (SCI Q3; Impact Factor: 2.373; CCF-C)

Conference Papers:

- Rui Shao, Tianxing Wu, Ziwei Liu. ""Detecting and Grounding Multi-Modal Media Manipulation". IEEE
 Conference on Computer Vision and Pattern Recognition (CVPR), 2023. (CCF-A; Top Conference in Computer
 Vision)
- Rui Shao, Tianxing Wu, Ziwei Liu. "Detecting and Recovering Sequential DeepFake Manipulation". European Conference on Computer Vision (ECCV), 2022. (TH-CPL-A; CCF-B; Top Conference in Computer Vision)
- Rui Shao, Pramuditha Perera, Pong C. Yuen, Vishal M. Patel. "Open-set Adversarial Defense". European Conference on Computer Vision (ECCV), 2020. (TH-CPL-A; CCF-B; Top Conference in Computer Vision)
- Rui Shao, Bochao Zhang, Pong C. Yuen, Vishal M. Patel. "Federated Test-Time Adaptive Face Presentation Attack Detection with Dual-Phase Privacy Preservation". *IEEE International Conference on Automatic Face and Gesture Recognition (FG)*, 2021. (CCF-C; Top Conference in Biometrics)
- Rui Shao, Xiangyuan Lan, Pong C. Yuen. "Regularized Fine-grained Meta Face Anti-spoofing". Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI), 2020. (CCF-A; Top Conference in Artificial Intelligence)
- Rui Shao, Xiangyuan Lan, Jiawei Li, Pong C. Yuen. "Multi-adversarial Discriminative Deep Domain Generalization for Face Presentation Attack Detection". IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019. (CCF-A; Top Conference in Computer Vision)
- Rui Shao, Xiangyuan Lan, Pong C. Yuen. "Feature Constrained by Pixel: Hierarchical Adversarial Deep Domain Adaptation". ACM international conference on Multimedia (ACM MM), 2018. (CCF-A; Top Conference in Multimedia)
- Rui Shao, Xiangyuan Lan, Pong C. Yuen. "Deep Convolutional Dynamic Texture Learning with Adaptive Channel-discriminability for 3D Mask Face Anti-spoofing". International Joint Conference on Biometrics (IJCB), 2017. (TH-CPL-B; CCF-C; Top Conference in Biometrics)

Co-Author Papers:

- Xiangyuan Lan, Mang Ye, Rui Shao, Bineng Zhong, Pong C. Yuen, Huiyu Zhou. "Learning Modality-Consistency Feature Templates: A Robust RGB-Infrared Tracking System". IEEE Transactions on Industrial Electronics (TIE), 2019. (SCI Q1; Impact Factor: 8.236)
- Chong Yin, Siqi Liu, Rui Shao, Pong C. Yuen. "Focusing on Clinically Interpretable Features: Selective Attention Regularization for Liver Biopsy Image Classification". Medical Image Computing and Computer Assisted Interventions (MICCAI), 2021. (Top Conference in Medical Imaging)

Competition -

Ranked 4th in TRECVID, 2016

Zheng Wang, Yang Yang, Shuosen Guan, Chenxia Han, Jiamei Lan, **Rui Shao**, Jinqiao Wang, Chao Liang. "WHUNERCMS at TRECVID2016: Instance Search Task". *Participant Notebook Paper, TRECVID, 2016.*

Ranked 8th in Al Singapore Trusted Media Challenge, 2021.

❖ Services ———

• Program Committee Member:

AAAI Conference on Artificial Intelligence (AAAI), 2021, 2022, 2023 Workshop on Audiovisual Deepfake Generation and Detection, ACM MM 2021

• Invited Reviewer:

Journal: IEEE Transactions on Pattern Analysis and Machine Intelligence

International Journal of Computer Vision

IEEE Transactions on Neural Networks and Learning Systems

IEEE Transactions on Information Forensics and Security

IEEE Transactions on Circuits and Systems for Video Technology

Journal of Selected Topics in Signal Processing

Neural Networks

Pattern Recognition

Conference: CVPR, ICCV, ECCV, NeurIPS, AAAI, IJCAI, ACM MM, ICPR, ICB

• Student Volunteer: IAPR/IEEE Winter School on Biometrics 2017

❖ Awards —

- 2019-2020 Computer Science Department RPg Performance Award
- 2018-2019 Computer Science Department RPg Performance Award
- 2017-2018 Computer Science Department RPg Performance Award
- 2013-2014 People's Second-Class Scholarship
- 2012-2013 People's Second-Class Scholarship
- 2011-2012 People's Second-Class Scholarship