Associate Professor WAN, JUN

School of Computer Science and Engineering, Faculty of Innovation Engineering
Macau University of Science and Technology

Office：A406a
Tel.：
E-mail：jwan@must.edu.mo

Academic Qualification

Ph.D. in Signal and Information Processing, Beijing Jiaotong University
B.S. School of Geophysics and Geoinformation Systems, China university of Geosciences

Research Area

Computer Vision
Machine Learning
Face Analysis
Gesture and Sign Language Recognition

Working Experience

2018-present, Associate Professor, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China
2015-2018, Assistant Professor, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China

Academic Publication（selected）

Jun Wan, Guodong Guo, Stan Z Li, "Explore efficient local features from RGB-D data for one shot learning gesture recognition", IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), vol. 38, no. 8, pp. 1626-1639, 2016.

Zichang Tan, **Jun Wan***, Zhen Lei, Ruicong Zhi, Guodong Guo, Stan Z. Li, "Efficient Group-n Encoding and Decoding for Facial Age Estimation", IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), Vol 40, No. 11, 2018

Zitong Yu, **Jun Wan***, Yunxiao Qin, Xiaobai Li, Stan Z. Li, Guoying Zhao*, "NAS-FAS: Static-Dynamic Central Difference Network Search for Face Anti-spoofing", IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2021.

Jun Wan, Vassilis Athitsos, Pat Jangyodsuk, Hugo Jair Escalante, Qiuqi Ruan, and Isabelle Guyon "CSMMI: Class-Specific Maximization of Mutual Information for Action and Gesture Recognition", IEEE Transactions on Image Processing (**TIP**), vol 23(7), pp.3152-3165, 2014.

Zichang Tan, Yang Yang, **Jun Wan***, Hanyuan Huang, Guodong Guo and Stan Z. Li, "Attention based Pedestrian Attribute Analysis", IEEE Transactions on Image Processing (**TIP**), Vol 28, No. 12, 6126-6140, 2019.

Zitong Yu, Benjia Zhou, **Jun Wan***, Pichao Wang, Haoyu Chen, Xin Liu, Stan Z. Li, Guoying Zhao, "Searching Multi-Rate and Multi-Modal Temporal Enhanced Networks for Gesture Recognition", IEEE Transactions on Image Processing (**TIP**), 2021.

Jun Wan, Qiuqi Ruan, Shuang Deng and Wei Li "One-shot Learning Gesture Recognition from RGB-D Data Using Bag of Features", Journal of Machine Learning Research (**JMLR**), pp. 2549-2582, vol 14, 2013.

Yunan Li, **Jun Wan***, Qiguang Miao, Sergio Escalera, Huijuan Fang, Huizhou Chen, Xiangda Qi and Guodong Guo, "CR-Net: A Deep Classification-Regression Network for Multimodal Apparent Personality Analysis", International Journal of Computer Vision (**IJCV**), 2020.

Yang Yang, Zichang Tan, Prayag Tiwari, Hari Mohan Pandey, **Jun Wan***, Zhen Lei, Guodong Guo, Stan Z. Li, "Cascaded Split-and-Aggregate Learning with Feature Recombination for Pedestrian Attribute Recognition", International Journal of Computer Vision (**IJCV**), 2021.

Jun Wan, Chi Lin, Longyin Wen, Yunan Li, Qiguang Miao, Sergio Escalera, Gholamreza Anbarjafari, Isabelle Guyon, Guodong Guo, Stan Z. Li, "ChaLearn Looking at People: IsoGD and ConGD Large-scale RGB-D Gesture Recognition", IEEE Transactions on Cybernetics (**TCYB**), 2020

Jun Wan*, Zichang Tan, Zhen Lei, Guodong Guo, Stan Z. Li, "Auxiliary Demographic Information Assisted Age Estimation with Cascaded Structure", IEEE Transactions on Cybernetics (**TCYB**), Vol 48, No. 9, pp. 2531-2541, 2018.

Ajian Liu, Zichang Tan, **Jun Wan***, Yanyan Liang, Zhen Lei, Guodong Guo, Stan Z. Li, "Face Anti-spoofing via Adversarial Cross-modality Translation", IEEE Transactions on Information Forensics & Security (TIFS), 2021.

Shifeng Zhang, Ajian Liu, **Jun Wan***, Yanyan Liang, Guodong Guo, Sergio Escalera, Hugo Jair Escalante and Stan Z. Li, "CASIA-SURF: A Large-scale Multi-modal Benchmark for Face Anti-spoofing", IEEE Transactions on Biometrics, Behavior, and Identity Science (TBIOM), 2020.

Pichao Wang, Wanqing Li, Philip Ogunbona, **Jun Wan***, Sergio Escalera, "RGB-D-based Human Motion Recognition with Deep Learning: A Survey", Computer Vision and Image Understanding (**CVIU**), Vol 171, PP 118-139, 2018.

Benjia Zhou, Yunan Li, **Jun Wan***, "Regional Attention with Architecture-Rebuilt 3D Network for RGB-D Gesture Recognition", **AAAI**, 2021.

Zichang Tan, Yang Yang, **Jun Wan***, Guodong Guo, Stan Z. Li, "Relation-Aware Pedestrian Attribute Recognition with Graph Convolutional Networks", **AAAI**, 2020.

Shifeng Zhang, Xiaobo Wang, Ajian Liu, Chenxu Zhao, **Jun Wan***, Sergio Escalera, Hailin Shi, Zezheng Wang, Stan Z. Li, "A Dataset and Benchmark for Large-scale Multi-modal Face Anti-spoofing", **CVPR**, 2019.

Pichao Wang, Wanqing **Li, Jun Wan***, Philio Ogunbona, Xinwang Liu, "Cooperative Training of Deep Aggregation Networks for RGB-D Action Recognition", **AAAI**, pp. 7404-7411, 2018

Books

Jun Wan, Guodong Guo, Sergio Escalera, Hugo Jair Escalante, Stan Z. Li (Editors), Multi-Modal Face Presentation Attack Detection, Synthesis Lectures on Computer Vision, Morgan & Claypool Publishers, 2020

Professional Society Membership

Senior Member , Institute of Electrical and Electronics Engineers (IEEE).

Director, ChaLearn