

## Asst. Prof. Nannan Li

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### Academic Qualification:

**Ph.D. in** Pattern Recognition and Intelligent Systems, University of Chinese Academy of Sciences, China, 2015.

**M.S. in** Opto-electronic Engineering, Hefei University of Technology, China, 2011.

**B.S. in** Optical Information Science and Technology, Hefei University of Technology, China, 2008.

### Teaching Area

Digital Image Processing

### Research Area

Deep Learning

Computer Vision

Multi-modal Learning

### Working Experience

Mar 2021 - Present     Assistant Professor, International Institute for Next Generation Internet, Macau University of Science and Technology, Macau.

Mar 2018 - Mar 2021     Director of Computer Vision R&D, Longgang Institutes of Intelligent Video and Audio Technology, China.

Oct 2015 - Oct 2018     Postdoctoral Fellow, School of Electronic and Computer Engineering, Peking University, China.

### Academic Publication (selected)

- [1] Jingjia Huang, **Nannan Li**, Thomas Li, Shan Liu and Ge Li, "Spatial-Temporal Context-Aware Online Action Detection and Prediction", *IEEE Transactions on Circuits and Systems for Video Technology (T-CSVT)*, 2019.
- [2] **Nannan Li**, Jingjia Huang, Thomas Li, Huiwen Guo and Ge Li, "Detecting Action Tubes via Spatial Action Estimation and Temporal Path Inference," *Neurocomputing*, 2018.
- [3] **Nannan Li**, Huiwen Guo, Yang Zhao, Thomas Li and Ge Li, "Active Temporal Action Localization in Untrimmed Videos Based on Deep Reinforcement Learning," *IEEE Access*, 2018.
- [4] **Nannan Li**, Xinyu Wu, Dan Xu, Huiwen Guo and Wei Feng, "Spatio-temporal Context Analysis Within Video Volumes for Anomalous-Event Detection and Localization," *Neurocomputing*, 2015.
- [5] **Nannan Li**, Xinyu Wu, Huiwen Guo, Dan Xu and Yen-lun Chen, " Anomaly Detection In Video Surveillance via Gaussian Process", *International Journal of Pattern Recognition and Artificial Intelligence*, 2015.
- [6] Dan Xu, Rui Song, Xinyu Wu, **Nannan Li**, Wei Feng and Huihuan Qian, "Video Anomaly Detection based on A Hierarchical Activity Discovery Within Spatio-temporal Contexts", *Neurocomputing*, 2014.
- [7] Jia-xing Zhong, **Nannan Li**, Weijie Kong, Shan Liu, Thomas H.Li, and Ge Li, "Graph Convolutional Label Noise Cleaner: Train a Plug-and-play Action Classifier for Anomaly Detection", *International Conference*

on *Computer Vision and Pattern Recognition (CVPR)*, 2019.

- [8] Jingjia Huang, Zhangheng Li, **Nannan Li**, Shan Liu and Ge Li, "AttPool: Towards Hierarchical Feature Representation in Graph Convolutional Networks via Attention Mechanism", *International Conference on Computer Vision (ICCV)*, 2019.
- [9] Jingjia Huang, **Nannan Li**, Tao Zhang, Ge Li, Tiejun Huang, Wen Gao, "SAP: Self-Adaptive Proposal Model for Temporal Action Detection based on Reinforcement Learning," *In AAAI Conference on Artificial Intelligence (AAAI)*, 2018.
- [10] Jingjia Huang, **Nannan Li**, Jiaxing Zhong, Thomas Li, and Ge Li, "Online Action tube Detection via Resolving the Spatio-temporal Context Pattern", *ACM Multimedia*, 2018.
- [11] Jiaxing Zhong, **Nannan Li**, Weijie Kong, Tao Zhang, Thomas Li and Ge Li, "Step-by-step Erosion, One-by-one Collection: A Weakly Supervised Temporal Action Detector", *ACM Multimedia*, 2018.
- [12] Jingjia Huang, Ge Li, **Nannan Li**, Ronggang Wang, and Wenmin Wang, "A Violence Detection Approach based on Spatio-temporal Hypergraph Transition", *International Conference on Computer Analysis of Images and Patterns*, 2017.
- [13] **Nannan Li**, Dan Xu, Zhenqiang Ying, Zhihao Li, and Ge Li, "Searching Action Proposals via Spatial Actionness Estimation and Temporal Path Inference and Tracking", *Asian Conference on Computer Vision (ACCV)*, 2016.
- [14] Zhihao Li, Wenmin Wang, **Nannan Li**, JinZhuo Wang, "Tube ConvNets: Better exploiting motion for action recognition," *International Conference on Image Processing (ICIP)*, 2016.
- [15] **Nannan Li**, Huiwen Guo, Dan Xu, Xinyu Wu, "Multi-scale Analysis Of Contextual Information Within Spatio-temporal Video Volumes for Anomaly Detection", *International Conference on Image Processing (ICIP)*, 2014.
- [16] Dan Xu, Xinyu Wu, Dezhen Song, **Nannan Li**, Yen-Lun Chen, "Hierarchical Activity Discovery Within Sspatio-temporal Context for Video Anomaly Detection", *International Conference on Image Processing (ICIP)*, 2013.