

RUIZE HAN

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🎓 EDUCATION

Tianjin University (TJU), Tianjin, China 2019 – Present
Ph.D student in Computer Application Technology Supervisor: Prof. Wei Feng
Tianjin University (TJU), Tianjin, China 2016 – 2019
M.Eng. in Computer Technology Engineering Supervisor: Prof. Wei Feng
Hebei University of Technology, Tianjin, China 2012 – 2016
B.S. in Mathematics and Applied Mathematics

🏛️ RESEARCH PROJECTS

Multi-Human-Centric Multi-Camera Video Analysis Jan. 2019 – Present

- › Multi-human association and tracking from the complementary top view and horizontal egocentric view.
- › Human social activity detection and interested person identification in the crowded scene.
- › Spatial-temporal camera localization and alignment of the mobile-camera visual system.

Visual Object Tracking Jul. 2017 – Jun. 2020

- › Improved content-aware spatial regularization for CF (Correlation Filter) tracking.

Visual Positioning & Precision Measurement Sep. 2016 – Jul. 2017

- › Active recurrence of camera imaging condition and fine-grained change detection for cultural relics.

📖 SELECTIVE PUBLICATIONS

1. **Ruize Han**, Wei Feng, Yujun Zhang, Jiewen Zhao, Song Wang. Multiple Human Association and Tracking from Egocentric and Complementary Top Views, **IEEE TPAMI 2021**. (CCF-A)
2. **Ruize Han**, Yun Wang, Haomin Yan, Wei Feng, Song Wang. Multi-view Multi-Human Association with Deep Assignment Network, **IEEE TIP**, 2022. (CCF-A)
3. **Ruize Han**, Wei Feng, Song Wang. Fast Learning of Spatially Regularized and Content Aware Correlation Filter for Visual Tracking, **IEEE TIP**, 2020. (CCF-A)
4. **Ruize Han**, Yiyang Gan, Jiacheng Li, Feifan Wang, Wei Feng, Song Wang. Connecting the Complementary-view Videos: Joint Camera Identification and Subject Association, in **CVPR 2022**. (CCF-A)
5. **Ruize Han**, Haomin Yan, Jiacheng Li, Wei Feng, Songmiao Wang, Song Wang. Panoramic Human Activity Recognition, in **ECCV 2022**.
6. Jiacheng Li, **Ruize Han**[†], Haomin Yan, Zekun Qian, Wei Feng, Song Wang. Self-supervised Social Relation Representation for Human Group Detection, in **ECCV 2022**. (Oral, Acceptance rate 2.7%, Corresponding Author).
7. **Ruize Han**, Wei Feng, Jiewen Zhao, Zicheng Niu, Yujun Zhang, Liang Wan, Song Wang. Complementary-View Multiple Human Tracking, in **AAAI**, 2020. (CCF-A)
8. **Ruize Han**, Jiewen Zhao, Wei Feng, Yiyang Gan, Liang Wan, Song Wang. Complementary-View Co-Interest Person Detection, in **ACM MM**, 2020. (CCF-A)
9. Wei Feng^{||}, **Ruize Han**^{||}, Qing Guo, Jianke Zhu, Song Wang. Dynamic Saliency-Aware Regularization for Correlation Filter-Based Object Tracking, **IEEE TIP**, 2019. (CCF-A, *First Student Author*)
10. **Ruize Han**, Qing Guo, Wei Feng. Content-Related Spatial Regularization for Visual Object Tracking, in **ICME**, 2018. (CCF-B, *Best Paper Award*)

🏆 HONORS AND AWARDS

Excellent Doctoral Foundation of Tianjin University	2022
National Graduate Scholarship	2022
National Graduate Scholarship	2020
National Graduate Scholarship	2018
China International College Students' 'Internet+' Innovation and Entrepreneurship Competition Tianjin Gold Prize	2021
National Postdoctoral Academic Forum on Information Innovation and AI Development Grand Prize	2021
IEEE ICME (CCF B) Best Paper Award	2018
Excellent Dissertation of Hebei University of Technology	2016
National Encouragement Scholarship	2015

📖 ACADEMIC SERVICES

- Reviewer of conference: ICCV-21, CVPR-21, 22, ECCV-22, AAAI-21, 22, 23, IJCAI-20, ICME-22, ICPR-18
- Reviewer of journal: IEEE TPAMI, IEEE TMM, IEEE TCSVT, Neurocomputing, Pattern Recognition Letters, Electronic Letters

📄 OTHER PUBLICATIONS

- **Ruize Han**, Wei Feng, Qing Guo, Qinghua Hu. Single Object Tracking Research: A Survey, **Chinese Journal of Computers**, 2022. (in Chinese, CCF-T1)
- Liqiang Yin^{||}, **Ruize Han**^{||}, Wei Feng, Song Wang. Self-Supervised Human Pose based Multi-Camera Video Synchronization, in **ACM MM 2022**. (CCF-A, Co-first Author)
- Yiyang Gan, **Ruize Han**[†], Liqiang Yin, Wei Feng, Song Wang[†]. Self-supervised Multi-view Multi-Human Association and Tracking, in **ACM MM**, 2021. (CCF-A, Oral Paper, Co-corresponding Author)
- Jiewen Zhao^{||}, **Ruize Han**^{||}, Yiang Gan^{||}, Liang Wan, Wei Feng, Song Wang. Human Identification and Interaction Detection in Cross-View Multi-Person Videos with Wearable Cameras, in **ACM MM 2020**. (CCF-A, Co-first Author)
- Qing Guo, **Ruize Han**, Wei Feng, Zhihao Chen, Liang Wan. Selective Spatial Regularization by Reinforcement Learned Decision Making for Object Tracking, **IEEE TIP**, 2020. (CCF-A)
- Sibowang, **Ruize Han**[†], Wei Feng, Song Wang. Multiple Human Tracking in Non-specific Coverage with Wearable Cameras, in **ICASSP**, 2021 (CCF-B, Corresponding Author)
- Qian Zhang, Fei-Peng Tian, **Ruize Han**, Wei Feng. Near-Surface Lighting Estimation and Reconstruction, in **ICME**, 2017. (CCF-B)
- Haibo Li, Liqing Gao, **Ruize Han**, Liang Wan, Wei Feng. Key Action and Joint CTC-Attention based Sign Language Recognition, in **ICASSP**, 2020. (CCF-B)
- Kuan Li, Yi Jin, Muhammad Waqar Akram, **Ruize Han**, Jiongwei Chen. Facial expression recognition with convolutional neural networks via a new face cropping and rotation strategy. *The Visual Computer*, 2020. (SCI)
- Jiacheng Li, Ruirui Li, **Ruize Han**, Song Wang. Self-Relabeling for Noise-Tolerant Retina Vessel Segmentation through Label Reliability Estimation, *BMC Medical Imaging*, 2022. (SCI)

📁 MISCELLANEOUS

- Interests: Badminton, Board Game
- Programming Languages: MATLAB > Python > C++
- Languages: Chinese, English (CET-6)
- National Computer Rank Examination: Level 2-4