Ruize Han

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🎓 Education

Tianjin University (TJU), Tian Jin, China   2019 – Present
Ph.D student in Computer Application Technology

Tianjin University (TJU), Tian Jin, China   2016 – 2019
M.Eng. in Computer Technology Engineering

Hebei University of Technology, Tianjin, China   2012 – 2016
B.S. in Mathematics and Applied Mathematics

🏛 Research Projects

Multi-Camera Video Analysis   Jan. 2019 – Present
> Associate and track multiple humans between the top bird's eye view and horizontal egocentric view.
> Detect the co-interest person via the human visual attention using complementary-view cameras.
> Detect and recognize the human-human interactive activity in crowded scene with graph neural network.

Visual Object Tracking   Jul. 2017 – Present
> Design the dynamic/selective content-aware regularization in spatial-temporal domain for visual tracking.
> Propose a new weighting sample based approach for CF tracking to alleviate the boundary effects.

Visual Positioning & Precision Measurement   Sep. 2016 – Jul. 2017
> Inspect the fine-grained change of cultural relics under real-world hosting environment.
> Active recurrence of lighting condition for fine-grained change detection.

📖 Publications

- **Ruize Han**, Wei Feng, Jiewen Zhao, Zicheng Niu, Yujun Zhang, Liang Wan, Song Wang. Complementary-View Multiple Human Tracking, in **AAAI**, 2020.

- **Ruize Han**, Jiewen Zhao, Wei Feng, Yiyang Gan, Liang Wan, Song Wang. Complementary-View Co-Interest Person Detection, in **ACM MM** 2020.

- Jiewen Zhao$^{\parallel}$, **Ruize Han**$^{\parallel}$, Yiang Gan$^{\parallel}$, Liang Wan, Wei Feng, Song Wang. Human Identification and Interaction Detection in Cross-View Multi-Person Videos with Wearable Cameras, in **ACM MM** 2020. (*Co-first Author*)

- **Ruize Han**, Wei Feng, Song Wang. Fast Learning of Spatially Regularized and Content Aware Correlation Filter for Visual Tracking, **IEEE TIP**, 2020.

- Wei Feng$^{\parallel}$, **Ruize Han**$^{\parallel}$, Qing Guo, Jianke Zhu, Song Wang. Dynamic Saliency-Aware Regularization for Correlation Filter-Based Object Tracking, **IEEE TIP**, 2019. (*Co-first Author*)

- **Ruize Han**, Qing Guo, Wei Feng. Content-Related Spatial Regularization for Visual Object Tracking, in **ICME**, 2018. (*Best Paper Award*)

- Sibo Wang, **Ruize Han**†, Wei Feng, Song Wang. Multiple Human Tracking in Non-specific Coverage with Wearable Cameras, in **ICASSP**, 2021. (*Corresponding 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.

- Haibo Li, Liqing Gao, **Ruize Han**, Liang Wan, Wei Feng. Key Action and Joint CTC-Attention based Sign Language Recognition, in **ICASSP**, 2020.

- Qian Zhang, Fei-Peng Tian, **Ruize Han**, Wei Feng. Near-Surface Lighting Estimation and Reconstruction, in **ICME**, 2017.

🏆 Honors and Awards

National Graduate Scholarship	2020
National Graduate Scholarship	2018
ICME 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, AAAI-21, IJCAI-20, ICPR-18
- Reviewer of journal: IEEE TPAMI, Neurocomputing, Pattern Recognition Letters, Electronic Letters

🏷 Miscellaneous

- Interests: Badminton, Board Game
- Programming Languages: MATLAB > Python > C++
- Languages: English (CET-6)