

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 (CIP) via the human visual attention using complementary-view cameras.
- › Detect and recognize the human-human interactions under crowded scene using graph neural network.

Visual Object Tracking Jul. 2017 – Present

- › Design the dynamic/selective content-aware regularization in spatial-temporal domain for correlation filter (CF) based visual object 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 environments via visual positioning and precision measurement.
- › Active recurrence of lighting condition for fine-grained change detection.

📖 PUBLICATIONS

- Jiewen Zhao^{||}, **Ruize Han**^{||}, YiYang 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.
- **Ruize Han**, Jiewen Zhao, Wei Feng, Yiyang Gan, Liang Wan, Song Wang. Complementary-View Co-Interest Person Detection, in **ACM MM** 2020.
- **Ruize Han**, Wei Feng, Song Wang. Fast Learning of Spatially Regularized and Content Aware Correlation Filter for Visual 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.
- Qing Guo, **Ruize Han**, Wei Feng, Zhihao Chen, Liang Wan. Selective Spatial Regularization by Reinforcement Learned Decision Making for Object Tracking, **IEEE TIP**, 2020.
- **Ruize Han**, Wei Feng, Jiewen Zhao, Zicheng Niu, Yujun Zhang, Liang Wan, Song Wang. Complementary-View Multiple Human Tracking, in **AAAI**, 2020.
- Wei Feng^{||}, **Ruize Han**^{||}, Qing Guo, Jianke Zhu, Song Wang. Dynamic Saliency-Aware Regularization for Correlation Filter-Based Object Tracking, **IEEE TIP**, 2019. (*Joint First Author*)
- **Ruize Han**, Qing Guo, Wei Feng. Content-Related Spatial Regularization for Visual Object Tracking, in **ICME**, 2018. (*Best Paper Award*)
- Qian Zhang, Fei-Peng Tian, **Ruize Han**, Wei Feng. Near-Surface Lighting Estimation and Reconstruction, in **ICME**, 2017.

HONORS AND AWARDS

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: IJCAI-20, ICIP-18
- Reviewer of journal: Neurocomputing, Pattern Recognition Letters, Electronic Letters

MISCELLANEOUS

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