Multi-Camera Multi-Object Tracking and Re-Identification

Research Project
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Declaration

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Abstract

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1 Introduction

1.1 Lorem ipsum

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2 Structure

[1]: Tracking framework for multiple interacting targets both overlapping and non-overlapping cameras, raw target trajectory with group state. SVMS, homography-based voting schema, networkflow problem, K-shortest paths algorithm.

[2]: Non-overlapping multiple cameras tracking based on smiliarity function. Data association method. Smilarity based on color appearance and camera topology. Use superpixels for extracting color features generated by Simple Linear Iterative Clustering K-means camera topology learning.

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Bibliography

[1] S. Zhang, Y. Zhu, and A. Roy-Chowdhury, "Tracking multiple interacting targets in a camera network," *Computer Vision and Image Understanding*, vol. 134, pp. 64–73, 2015, Image Understanding for Real-world Distributed Video Networks, ISSN: 1077-3142. DOI: https://doi.org/10.1016/j.cviu.2015.01.002. [Online]. Available: https://www.sciencedirect.com/science/article/pii/S1077314215000168.

[2] H. Choi and M. Jeon, "Data association for non-overlapping multi-camera multi-object tracking based on similarity function," in *2016 IEEE International Conference on Consumer Electronics-Asia (ICCE-Asia)*, Oct. 2016, pp. 1–4. DOI: 10.1109/ICCE-Asia.2016.7804834.