

Multi-object Tracking Cascade with Multi-Step Data Association and Occlusion Handling

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Abstract

Multi-object tracking is a fundamental computer vision task with a wide variety of real-life applications ranging from surveillance and monitoring to biomedical video analysis. Multi-object tracking is a challenging task due to complications caused by object appearance changes, complex object dynamics, clutter in the environment, and partial or full occlusions. In this paper, we propose a time-efficient detection-based multi-object tracking system using a three-step cascaded data association scheme that combines a fast spatial distance only short-term data association, a robust tracklet linking step using discriminative object appearance models, and an explicit occlusion handling unit relying not only on tracked objects' motion patterns but also on environmental constraints such as presence of potential occluders in the scene. Our experiments on UA-DETRAC multi-object tracking benchmark dataset consisting of challenging real-world traffic videos show promising results against state-of-the-art trackers.

1. Introduction

Visual tracking is a fundamental computer vision task with many applications in various domains from surveillance and monitoring, sport video analysis, robotics, to biomedical motion analysis. Single object tracking [6, 27, 37, 3] and multi-object tracking [36, 2, 22] are the two main categories of visual tracking. Multi-object tracking aims to locate multiple objects in a scene, maintain their identities in time, and form motion trajectories for further analysis. Recent advances in object detection methods [12, 26, 13] started to shift the focus of multi-object tracking studies from object localization to data association and trajectory



Figure 1. Proposed system overview.

estimation. Tracking-by-detection methods maintain object identities in time and form motion trajectories relying on data association approaches [25, 10]. The data association process can be performed either online [17, 29] by exploiting only the information gathered from the past frames, or offline (also called batch-mode) [18, 40] by exploiting information from both past and future frames. Some applications (e.g. online surveillance, navigation, autonomous driving etc.) require online object tracking. Temporary detection problems, false positives (spurious detections), false negatives (such as those caused by partial or full occlusions), over/under segmentation (target splits and merges), or data association ambiguities may lead to trajectory fragmentation. In such cases, tracklet linking is needed to generate more complete trajectories.

There are two critical issues with data association for multi-object tracking. First, how to reliably match new detections to the existing trajectories despite sub-optimal detection results and objects entering/exiting the scene. Second, how to reduce the computational cost needed to resolve multiple hypotheses. Appearance [39, 2, 24], motion [23, 38], and environment context [39, 31] are the major cues used to link targets or fragmented tracklets (i.e.

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Table of Contents Improved Data Association And Occlusion Handling For

1. Understanding the eBook Improved Data Association And Occlusion Handling For
 - The Rise of Digital Reading Improved Data Association And Occlusion Handling For
 - Advantages of eBooks Over Traditional Books
2. Identifying Improved Data Association And Occlusion Handling For
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Improved Data Association And Occlusion Handling For
 - User-Friendly Interface
4. Exploring eBook Recommendations from Improved Data Association And Occlusion Handling For
 - Personalized Recommendations
 - Improved Data Association And Occlusion Handling For User Reviews and Ratings
 - Improved Data Association And Occlusion Handling For and Bestseller Lists
5. Accessing Improved Data Association And Occlusion Handling For Free and Paid eBooks
 - Improved Data Association And Occlusion Handling For Public Domain eBooks
 - Improved Data Association And Occlusion Handling For eBook Subscription Services
 - Improved Data Association And Occlusion Handling For Budget-Friendly Options

6. Navigating Improved Data Association And Occlusion Handling For eBook Formats
 - ePub, PDF, MOBI, and More
 - Improved Data Association And Occlusion Handling For Compatibility with Devices
 - Improved Data Association And Occlusion Handling For Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Improved Data Association And Occlusion Handling For
 - Highlighting and Note-Taking Improved Data Association And Occlusion Handling For
 - Interactive Elements Improved Data Association And Occlusion Handling For
8. Staying Engaged with Improved Data Association And Occlusion Handling For
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Improved Data Association And Occlusion Handling For
9. Balancing eBooks and Physical Books Improved Data Association And Occlusion Handling For
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Improved Data Association And Occlusion Handling For
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Improved Data Association And Occlusion Handling For
 - Setting Reading Goals Improved Data Association And Occlusion Handling For
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Improved Data Association And Occlusion Handling For
 - Fact-Checking eBook Content of Improved Data Association And Occlusion Handling For
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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