Multiple Object Tracking: Course Outline

Dr. Waqas Afzal

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Introduction

Single Object Tracking (SOT) and Multiple Object Tracking (MOT)

Single Object Tracking (SOT): SOT is a filtering problem. It can be described as the sequential processing of noisy sensor measurements to determine an object's state:

- Position.
- Other properties like kinematics, etc.
- Other attributes related to the detected object like Electronic Support Measures (ESM) data.

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4 Random Finite Sets
- Introduction
- Common Random Finite Sets
- Standard Models in MOT
- Probabilistic Hypothesis Density Filtering
- Metrics in MOT

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