

**Multiple Targets Tracking Under Complex Scene**

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**Introduction**

Multiple targets tracking plays a vital role in various applications, such as surveillance, sports video analysis, human motion analysis, intelligent transport and many others. The objective of multiple targets tracking is to correctly detect entering and leaving targets and obtain a record of the trajectories of targets over time, maintaining a correct, unique identification for each target throughout. However, this mission becomes significantly more challenging when the targets frequently interact with each other (present partial or complete occlusions) in a crowded and high density scene. Therefore, we incorporate detection, online learning, online semantic scene learning and sensor fusion technique, and design a system which can perform the robust tracking under complex scene.

**Intelligent Surveillance: Camera and Laser Scanner based Tracking System**

**Pedestrian Flow Analysis and Environment Understanding: Multiple Targets Tracking Under High Density Scene**

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