

Academic Track

Video Use Cases Details

Note: Academic track participants shall demonstrate a minimum one use case from the mentioned use cases.

Sr No	Video Use Case	Problem Statement	Possible Approach
1	Passengers fall on the escalators	The fall of passengers on escalators is observed. This causes safety concerns for the passengers.	Escalator fall analytics on a dedicated CCTV Camera meant for escalator view shall identify such passenger fall cases, triggering alert on a real-time basis to avert accident/ train overrun.
2	Passengers crossing the platform edge	The fall of passengers on the track is observed wherein passengers used to look for the train entering the platform by crossing platform edge (accidental fall). This causes major safety concerns for the passengers.	Analytics on CCTV cameras installed on platform viewing platform/ platform edge, thereby, triggering alerts on a real-time basis to avert accident/ train overrun.
3	The ticketing line passenger count exceeds a pre-defined threshold	During peak hours, huge ticketing lines are observed at the metro station unpaid areas near TOM. This causes inconvenience to the passengers as they have to wait for the tickets for a long duration.	If the number of people in the ticket queue exceeds a certain threshold, an alarm should be raised as video analytics for deployment/ operation speediness.
4	Left Object/ Baggage detection	Many times passengers forget their belongings at the station premises which can sometimes cause a security challenge. It is necessary for the metro to identify such unattended/left objects.	If an object/baggage is left behind by any passenger on the station premises, then a video alert should be raised.

Technical details pertaining to the above use cases:

The following types of CCTV IP cameras are used in Pune Metro to provide video coverage at the premises of the Pune Metro Rail Project.

Sr No	Camera Type	Make	Model
1	Fixed Box Camera	Honeywell	HCD8G
2	Mini Dome Camera	Honeywell	H4W8PR2
3	Bullet Camera	Honeywell	HBL6GR2
4	Pan Tilt Zoom Camera	Honeywell	HDZP304DI