MULTIMODAL ANALYSIS OF HUMAN BEHAVIOUR LOOKING AT A TARGET SCENE
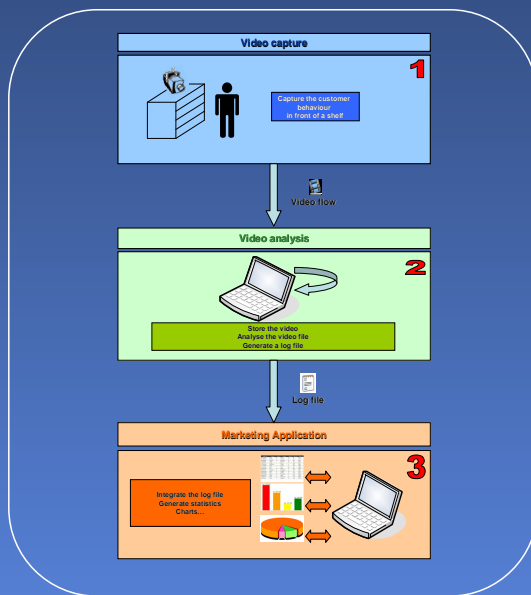
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GLOBAL APPROACH

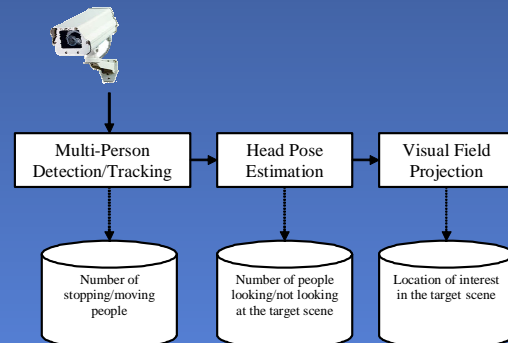**3 Modalities:**

Stop/Moving
this modality refers to whether the person is moving or not.
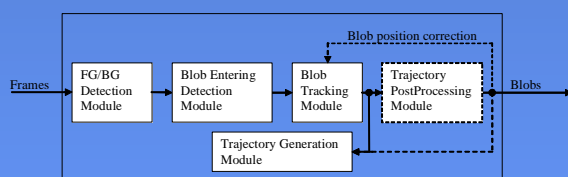
Looking/Not looking
this modality denotes persons whose visual field is oriented towards the target scene or not.

Location of interest
this modality provides the exact location of the person's gaze.
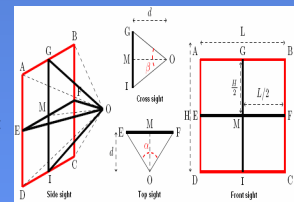

Multi-person Detection / Tracking

VISUAL FIELD PROJECTION

❖ ABCD: the zone seen by a person.

❖ O: represent the eyes.

❖ d: the distance between the point O and the rectangle ABCD

❖ L: the length, H: the height of the visual field
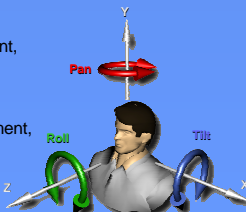

HEAD POSE ESTIMATION

Pan (Yaw)
Corresponds to a right/left head movement, around the y axis.

Tilt (Pitch)
Corresponds to a bottom/up head movement, around the x axis.

Roll (Slant)
Corresponds to a profile head movement, around the z axis.

EXPERIMENTS