# Shape-based Pedestrian Detection
## A. Broggi, M. Bertozzi, A. Fascioli, and A. Sechi (IV 2000)



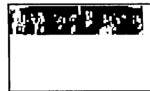- Detecting pedestrians on an experimental autonomous vehicle (the ARGO project)
- Exploiting morphological characteristics (size, ratio, and shape) and vertical symmetry of human shape
- A first coarse detection from a monocular image
- Distance refinement using a stereo vision technique
- Temporal correlation using the results from the previous frame to correct and validate the current ones
- Integrated in the ARGO vehicle and tested in urban environments
- Successful detections of whole pedestrians present in the image at a distance ranging from 10 to 40 meters