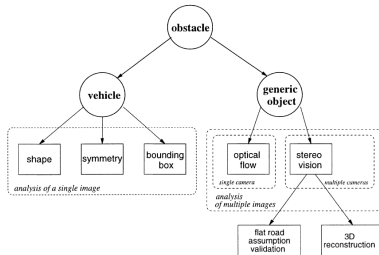


# Vision-based intelligent vehicles: State of the art and perspectives

M. Bertozzi, A. Broggi and A. Fascioli (RAS 2000)



- ▶ Survey on the most common approaches to the challenging task of Autonomous Road Following
- ▶ Computing power not a problem any more
- ▶ Data acquisition still problematic with difficulties like light reflections, wet road, direct sunshine, tunnels, shadows.
- ▶ Enhancement of sensor's capabilities and performance need to be addressed
- ▶ Full automation of traffic is technically feasible
- ▶ Legal aspects related to the responsibility and the impact of automatic driving on human passengers need to be carefully considered
- ▶ Automation will be restricted to special infrastructure for now and will be gradually extended to other key transportations areas as shipping