

Pedestrian Detection for Driving Assistance Systems: Single-frame Classification and System Level Performance

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- ▶ Functional and architectural breakdown of a monocular pedestrian detection system targeting on-board driving assistance application
- ▶ Single-frame classification based on a novel scheme of breaking down the class variability
- ▶ Repeatedly training a set of relatively simple classifiers on clusters of training set
- ▶ Integration of additional cues in a final system measured over time (dynamic gait, motion parallax, stability of re-detection)
- ▶ Training and evaluation on recorded data