

Lane Detection Algorithm

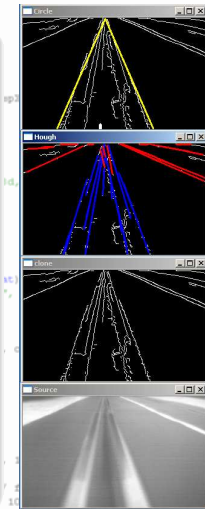
Goal is Detect Lanes on road or track and drive a car according to result of detection.

Basic information

- Algorithm for Freescale Race Challenge
- Detect any unknown track and drive car as fast as possible
- Human control is not allowed
- Any kind of sensors can be used



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Algorithm Description

- Extract frame from video and prepare for computation
- Canny detector, Hough transformation
- Analyze statistical data
- Data calculation, exponentially weighted moving average for frame error removing

All has to be done in 40 ms for 25 frames/sec realtime processing!