## Resources for FPGA-Vision Lecture and Remote-Lab

#### **Documents**

- FPGA-Vision\_Overview.pdf (2 pages)
- Lecture-Slides\_FPGA-Vision in pptx and pdf

### Video Lectures



## **C-Code for Edge-Detection**

- lane\_float.c
- lane fixed.c
- lane testbench.c
- bmp2sim.c
- sim2bmp.c
- bmp24\_io.c

## Files for FPGA-Implementation and Simulation

- lane.vhd
- lane sobel.vhd
- lane\_linemem.vhd
- lane g matrix.vhd
- lane g root IP.vhd
- lane\_g\_root.mif
- lane sync.vhd
- sim lane.vhd
- lane\_default\_Cyclone\_IV.qsf
- lane\_default\_Cyclone\_V.qsf
- lane.sdc
- lane\_g\_root\_ROM.ods

# **Test Images**

street\_A.bmp, street\_B.bmp, street\_C.bmp

#### **List of Resources**

FPGA-Vision Resources.pdf (1 page, this document)

# **Availability**

All videos, the source files and the access to the remote-lab are available on the project webpage: http://h-brs.de/fpga-vision-lab

Usage of the different files is explained in the video lectures.

C-code and files for FPGA-implementation are provided "as is". The files are for educational purpose and without any warranty.

#### License



This work by Marco Winzker, Hochschule Bonn-Rhein-Sieg is licensed under a Creative Commons Attribution 4.0 International License.

