

## Supervisor opinion

Doctoral thesis "Hardware-Based Object Detection Method" by Luděk Bryan – Crha presents a novel approach to image analysis and feature extraction in real time. This work is based on long-term (since at least 2002 year) systematic effort of the author in this field.

The overall properties of the thesis:

The work is based on many publications being presented at world prestigious conferences. It systematically and logically covers theoretical background, describes new principles used and stresses implementation principles and target technology. The presents a good balance between theory and engineering and implementation aspects. From this point of view is this PhD thesis very valuable.

The conclusion:

The overall effort of the author was very high.

The number of good publications is high.

The formal aspects of the thesis is very high.

The theoretical background is interesting and good.

The applicability of the novel approach is very good.

The target technology is well chosen and practically used.

The author's experience in the implementation area of XILINX design family is high.

The case study shows practical experimentation and application stage of the method.

There are no doubts about the quality of this thesis. That is why I recommend this work for the defence.



Brno, 24 November, 2007

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