

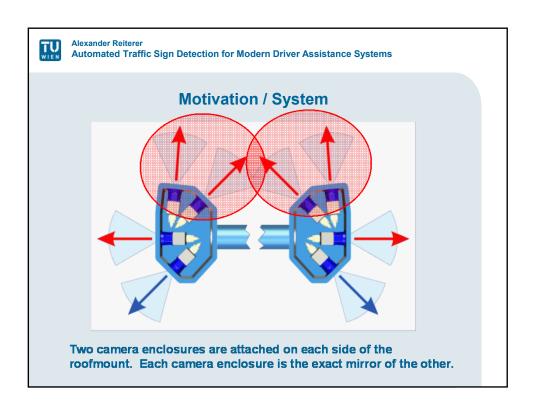
## **Automated Traffic Sign Detection for Modern Driver Assistance Systems**

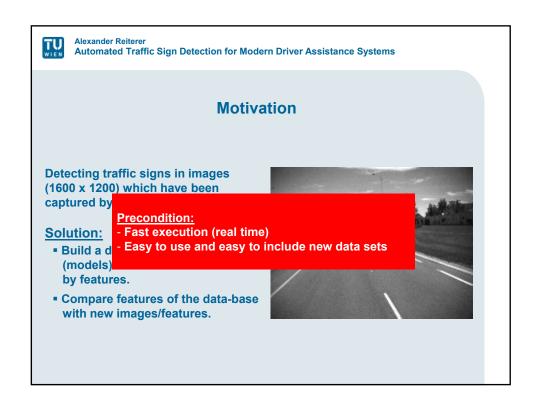
Alexander Reiterer<sup>1</sup>, Taher Hassan<sup>2</sup>, Naser El-Sheimy<sup>2</sup>

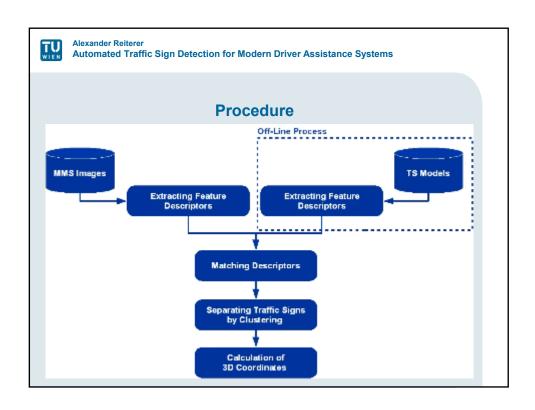
<sup>1</sup> Institut of Geodesy and Geophysics Vienna University of Technology

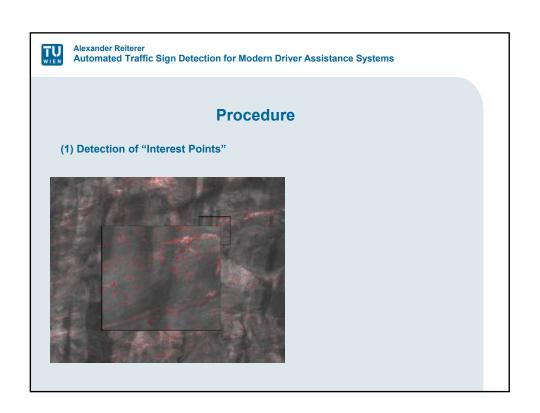
<sup>2</sup> Department of Geomatics Engineering University of Calgary

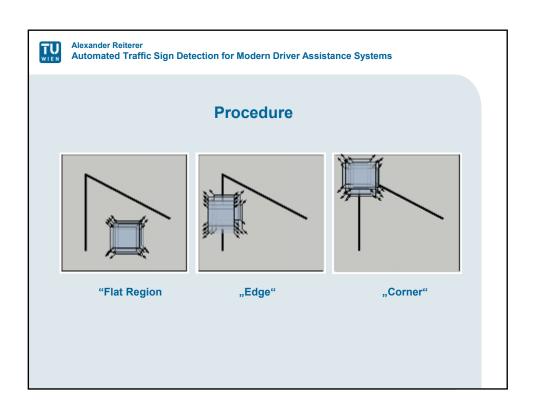


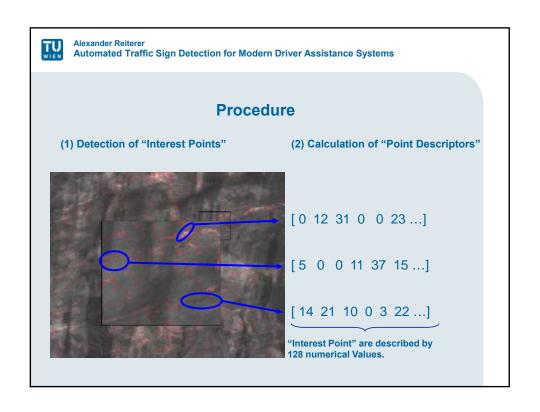


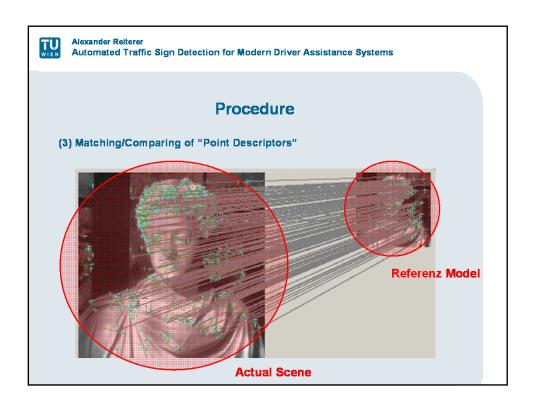


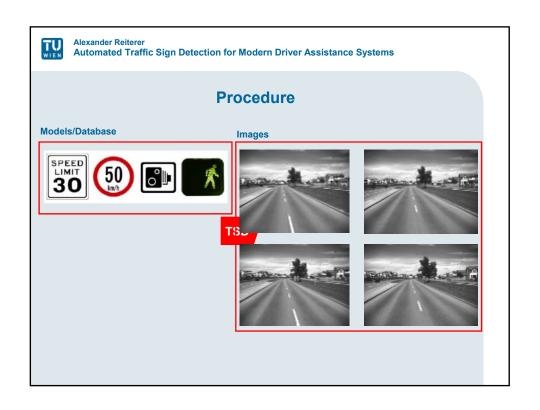


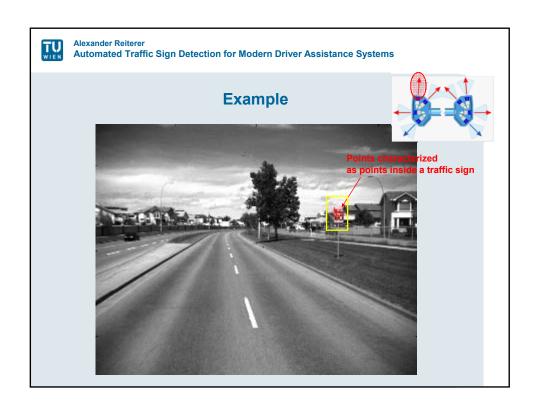


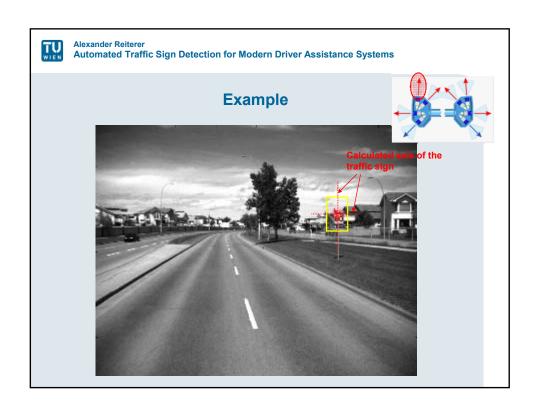


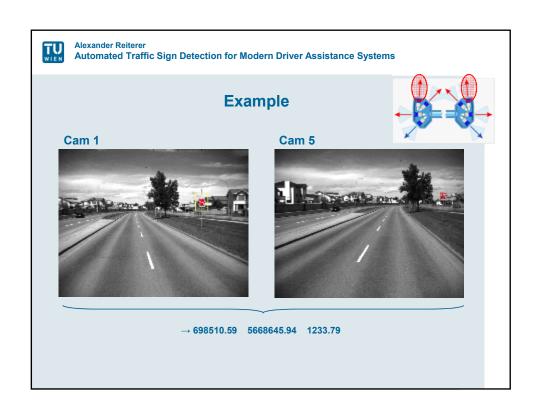


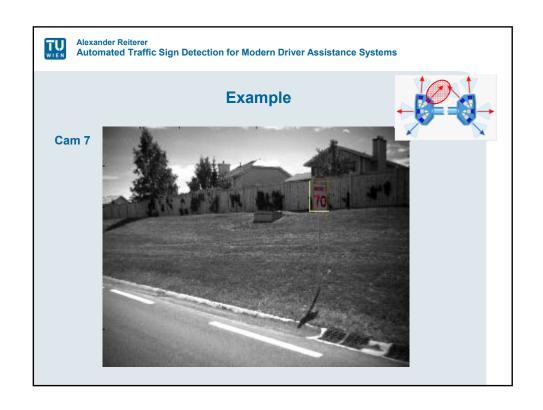


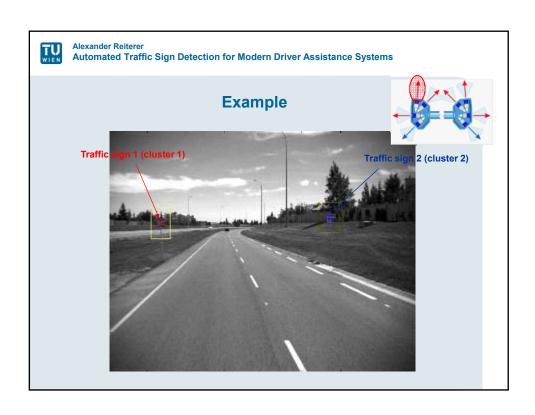


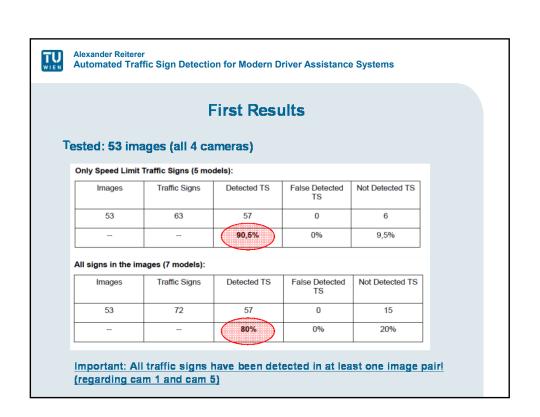


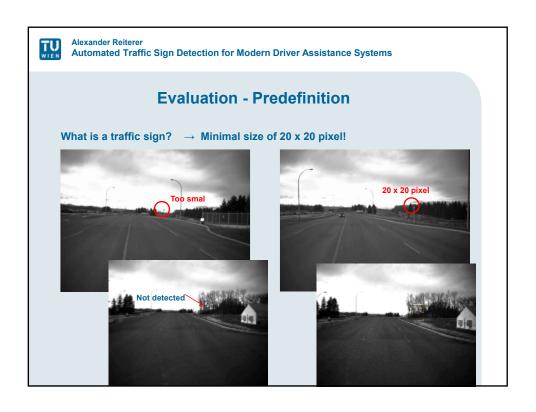


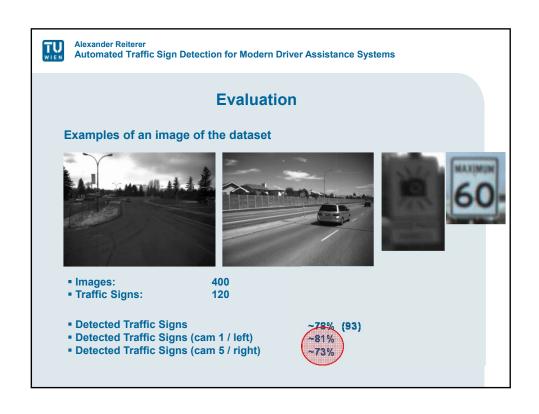


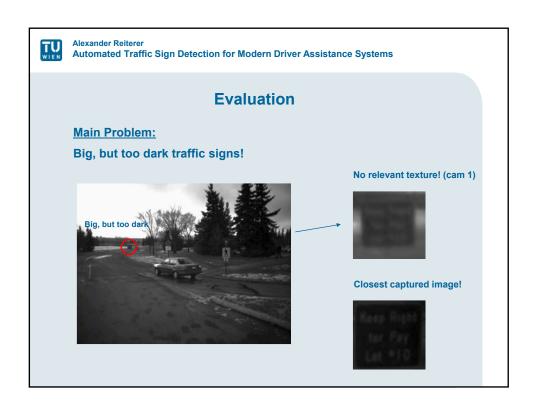














## Conclusion

- Automated traffic sign detection method which has been tested on image sequences captured by a mobile mapping system (VISATTM).
- The presented technique is based on existing algorithms, like the SIFT operator and the k-means clustering.
- Whole sequence has been implemented under MATLAB into a running prototype
- The system shows a sufficient detection rate of about 78%. Under ideal lighting conditions (e.g. constant illumination) detection rates of over 85-90% have been achieved.



## Thank you for your attention!

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