

HÖHERE TECHNISCHE BUNDESLEHRANSTALT HOLLABRUNN COLLEGE of ENGINEERING

2 Department: Information Technology

DIPLOMA THESIS

Documentation

Author(s)	Markus Brandstetter
Form	5BHITS
Academic year	
Topic	TrafficSignDetection
Co-operation partners	Gerald Zottl

	A system for recognizing traffic signs in real time is to be developed. Relevant traffic signs are to be recorded, titled and processed from the video data.
Assignment of tasks	Use of computer vision and machine learning
	Interpretation of recognized traffic signs
	User-friendly display of recognized signs
	Clear display of the applicable speed limit
	Focus on clarity and minimal driver distraction

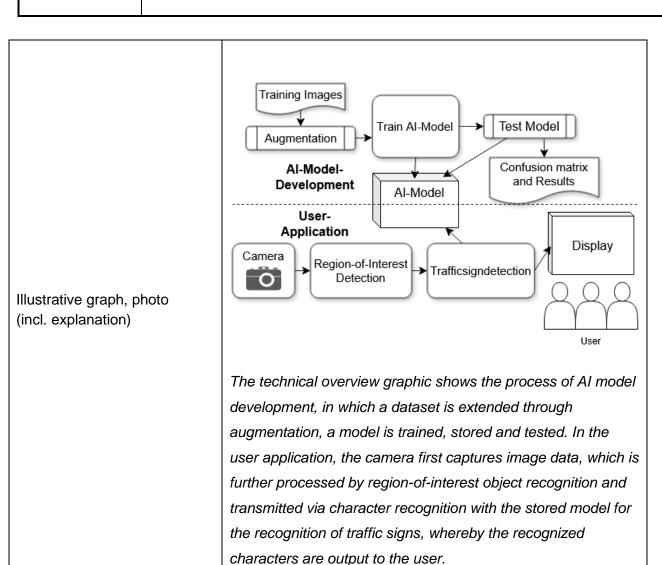
	First, images from the internet and image sections from self-
	created images and videos were collected to train and test the
	model. In the individual frames of a video or camera, possible
Realisation	panels are first recognized as geometric shapes. Only these
	interesting image sections are then passed to the AI for
	recognition. An app concept was developed but not
	implemented.

	The system detects speed limits in real time with high accuracy
Results	and displays them clearly. It reduces driver distraction and is a
	promising basis for advanced driver assistance systems.



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Participation in competitions Awards	
Accessibility of final project thesis	HTL Hollabrunn Anton Ehrenfriedstraße 10

	Examiner/s	Head of Department / College
Approval (Date / Signature)		

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