



3rd Conference Active Safety through Driver Assistance

April 7 – 8, 2008
Garching near Munich, Germany

Dear Participants,

welcome to the 3rd conference “Active Safety through Driver Assistance”. We are very pleased that you all were able to follow our invitation. We hope that the meeting will enhance your knowledge with new experiences, information and discussions.

You will find the agenda of both days, a list of participants and an assessment form in this folder on top of the documentation of the lectures. We kindly ask you to fill in the assessment form and to leave it at the end of the conference.

Please direct all your topic related questions to the lecturer or to the conference chairmen, respectively.

All questions related to organisational matters will be answered by Ute Alius and Christine Kebinger, TÜV SÜD Akademie GmbH.

We wish all of you a successful conference and an unforgettable visit to Munich.

Sincerely yours

Univ. Prof. Dr.-Ing. Bernd Heißing
Technische Universität München
Lehrstuhl Fahrzeugtechnik

Katja Deklerk
TÜV SÜD Akademie GmbH
Head of Conference Management

	Sehr gut		3	4	Sehr schlecht		Bemerkung
	1	2			5	6	
8. <u>Factual contents an clearness:</u> 2. Conference day: 08.04.2008:							
Dr. Johann Gwehenberger	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Birgit Graab	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Roland Galbas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dr. Helmut Schittenhelm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Andreas Muigg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dr. Johannes Happe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Stephan Matzka	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Michael Himmelsbach	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dr. Markus Straßberger	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Matthias Althoff	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Roman Mannale	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dr. Ulrich Gücker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dr. Martin Stämpfle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dr. Thomas Sattel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Stephan Cayet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Hans-Ulrich Michel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dr. Ulrich Kreßel / Walter Schwertberger	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Michael Thuy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Mike Montemerlo	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Conference Documenation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. Simultaneous translation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. Evening Programme	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

12. Topics to suggest for a forthcoming conference "Active Safety" in 2010

13. Critique and suggestions

14. Commendation



AGENDA ON APRIL 7, 2008

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10:00 **Welcome**
 Prof. Dr. Bernd Heiing, Technische Universitt Mnchen,
 Lehrstuhl fr Fahrzeugtechnik, DE

Plenari Session I - April 7,, 10:05 to 13:00

Parallel Session I – April 7, 14:00 to 18:00
Human-Machine Interface

Parallel Session II – April 7, 14:00 to 18:00
Features and Systems (1)

Parallel Session III – April 8, 08:30 to 12:00
Motivation und Nutzen

Parallel Session IV - April 8, 08:30 to 12:00
Features and Systems (2)

Parallel Session V - April 8, 13:00 to 14:00
Features and Systems (3)

Parallel Session VI - April 8, 13:00 to 14:00
Features and Systems (4)

Plenari Session II – April 8, 14:00 to 15:30

PLENARY SESSION L

CHAIR: PROF. DR. BERND HEIBING

10:05	Hedonics – the emotional dimension of driver assistance Prof. Dr. Hans Peter Krger, Universitt Wrzburg, Institut fr Psychologie, DE	1
10:30	Driver assistance systems from the point of view of Allianz Insurance and the effect on the insurance industry Dr. Karl-Walter Gutberlet, Member of the board of management, Allianz Versicherung AG, Munich, DE	2
11:00	Coffee break	
11:30	Driver assistance systems as seen by a vehicle producer Prof. Dr. Karl-Viktor Schaller, Member of the executive board, MAN Nutzfahrzeuge AG, Munich, DE	3
12:00	Safe, superior and comfortable driving: market needs and solutions Dr. Werner Struth, President of the Chassis Systems Control division, Robert Bosch GmbH, Abstatt, DE	4
12:30	The present status and the future of the EU-Projects concerning driver assistance systems – an overview Dr. Irmgard Heiber, European Commission, DG Information Society and Media, ICT for Transport, Brussels, BE	5
13:00	Lunch break	



AGENDA ON APRIL 8, 2008

INDEX	TIME	INDEX
		PARALLEL SESSION III
		MOTIVATION, BENEFIT, ACCEPTANCE
		<u>CHAIR: DR. UWE KOSER</u>
20		Benefits and risks with driver assistance systems – current results of AZT accident research
		Dr. Johann Gwehenberger, Dieter Daschner, Dr. Jörg Kubitzki, AZT Automotive GmbH, Ismaning, DE
21		Analysis of traffic accidents with regard to varying driver populations and derivable results for the design of adaptive driver assistant systems
		Birgit Graab, Eckart Donner, AUDI AG, Ingolstadt, DE; Ulrich Chiellino, Audi Accident Research Unit (AARU), Klinikum der Universität Regensburg, DE; Maria Hoppe, VW AG, Wolfsburg, DE
22		Accident analysis based safety development
		Roland Galbas, Lisa Blank, Dr. Michael Fausten, Andreas Georgi, Dr. Thomas Heger, Robert Bosch GmbH, Abstatt, DE
		Coffee break
23		Predicting the efficiency of collision mitigation strategies in respect of real-life accidents
		Dr. Helmut Schittenhelm, Daimler AG, Sindelfingen, DE
24		Negative effects of inappropriate messages
		Andreas Muigg, INI.TUM, Ingolstadt; Jürgen Meurle, AUDI AG, Ingolstadt, DE; Prof. Dr. Gerhard Rigoll, TU München, DE
25		Trends in the acceptance of driver assistance systems – customer benefits, name recognition and willingness-to-pay
		Dr. Johannes Happe, Michael Lütz, Continental AG, Regensburg, DE
		Lunch break
		PARALLEL SESSION IV
		FEATURES AND SYSTEMS (PART 2)
		<u>CHAIR: PROF. DR. GEORG FÄRBER</u>
08:30		Increasing sensor-resource efficiency using a proactive sensor system
		Stephan Matzka, Fachhochschule Ingolstadt und Heriot-Watt University; Yvan R. Petillot, Andrew M. Wallace, Heriot-Watt University, Edinburgh, GB; Paul Sprickmann Kerkerinck, AUDI AG, Ingolstadt, DE
09:00		A LIDAR-based perception system for off-road navigation
		Prof. Dr. Hans-Joachim Wünsche, Michael Himmelsbach, Dr. Felix v. Hundelshausen, Universität der Bundeswehr München, Neubiberg, DE
09:30		Situation prediction based on distributed sensor information
		Dr. Markus Strassberger, BMW Group Forschung und Technik, Munich, DE
10:00		Coffee break
10:30		Enhancement of driver assistance systems using reachability analysis of traffic participants
		Matthias Althoff, Olaf Stursberg, Martin Buss, TU München, DE
11:00		Basic analyses and approaches for a system for driver assistance in overtaking maneuvers
		Roman Mannale, Andree Hohm, Ken Schmitt, Prof. Dr. Rolf Isermann, Prof. Dr. Hermann Winner, TU Darmstadt
11:30		Development and validation of a rear end collision avoidance/mitigation system for commercial vehicles
		Dr. Ulrich Gücker, Dr. Falk Hecker, Dr. Jürgen Steinberger, Knorr-Bremse Systeme für Nutzfahrzeuge GmbH, Schwieberdingen, DE
12:00		Lunch break



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FEATURES AND SYSTEMS (PART 3)		
<u>CHAIR: DR. JOHANNES HAPPE</u>		
32	13:00	34
Longitudinal collision avoidance – approaching the vision of accident-free driving Dr. Martin Stämpfle, Dr. Wolfgang Branz, Robert Bosch GmbH, Stuttgart, DE	Automatic emergency calls in France Cyril Chauvel, Laboratory of Accidentology, Biomechanics and human behaviour, Nanterre; Stephan Cayet, PSA Peugeot Citroën, Velizy-Villacoublay; Cathylie Haviotte, CEESAR, Nanterre, FR	
33	13:30	35
Automatic evasion maneuvers in dynamic environments for automotive collision avoidance systems Jun.-Prof. Dr. Thomas Sattel, Tobias Hesse, Christoph Sondermann-Wölke, Heinz Nixdorf Institut, Universität Paderborn, DE	GST and eCall – a contribution to pan-European standardization of the emergency call within the Intelligent Car Initiative Hans-Ulrich Michel, BMW Group Forschung und Technik, Munich, DE	
PLENARY SESSION II		
<u>CHAIR: PROF. DR. BERND HEIBING</u>		
14:00	Research initiative AKTIV – Active Safety: Driver assistance systems for collision avoidance and collision mitigation Dr. Ulrich Kreßel, Daimler AG, Ulm; Walter Schwertberger, MAN Nutzfahrzeuge AG, Munich, DE	36
14:30	“Cognitive Automobiles” – new concepts and ideas of the transregional collaborative research centre TR-28 Michael Thuy, Matthias Althoff, Prof. Dr. Martin Buss, Prof. Dr. Klaus Diepold, Prof. Dr. Jörg Eberspächer, Prof. Dr. Georg Färber, Matthias Goebel, Prof. Dr. Bernd Heißeing, Sven Kraus, Robert Nagel, Youssef Naous, Florian Obermeier, Prof. Dr. Fernando Puente León, Florian Rattai, Cheng Wang, Technische Universität München; Michael Schweitzer, Prof. Dr. Hans-Joachim Wünsche, Universität der Bundeswehr München, DE	37
15:00	Closing lecture: The DARPA 2007 Urban Challenge Mike Montemerlo, Stanford Artificial Intelligence Laboratory, Stanford University, USA	38
15:30	Summing up and outlook	