## Program IJDS Symposium "Driving the Intelligent Vehicle"

### Wednesday

**Foyer**
12:00  *Walk-in lunch and registration*

### Van Warmerdam zaal

**13:00**  Welcome  
Joop Pauwelsussen, Director HAN University of Applied Sciences  
Gerben Feddes, Senior advisor intelligent mobility and Program manager innovation at RDW

**13:10**  What if technology takes over all driving tasks…  
Gerben Feddes, Senior advisor intelligent mobility and Program manager innovation at RDW

**13:30**  Paths to a self-driving future – Five transition steps identified  
Taade Tillema, Senior researcher KIM Netherlands Institute for Transport Policy Analysis, Min. of Infrastructure and the Environment

**14:00**  Role of the human driver in highly automated vehicles  
Tim Gordon, Head of School of Engineering in College of Science, University of Lincoln, United Kingdom

**Foyer**
14:30  *Coffee / tea break*

### Van Warmerdam zaal

**15:00**  ADAS: from owner to user  
Ilse Harms*, Leo Bingen**, Jasper Steffens***  
*Connecting Mobility, The Netherlands, **RAI, The Netherlands, ***VZR, The Netherlands

**15:20**  Trolley problem and autonomous cars: the attitude in Czechia  
Daniel Soutner, Eva Záková, Department of Man–Machine Interaction, New Technologies Research Centre of University of West Bohemia, Pilsen, Czech Republic

**15:40**  Advanced Driver Assistance Systems & driver training and testing: key issues to be addressed  
Peter Morsink*, René Claesen**  
*Royal HaskoningDHV, **CBR

**16:00**  Influence driving behavior  
Daniëlle Petit, De Verkeersonderneming Rotterdam

**16:20**  Parallel mini-workshops:  
- Behavioral influence as traffic management  
  Jorn de Vries, Flitsmeister  
- How to improve the drivers’ skills for future driving  
  Sjoerd Jonkers, SD-insights  
- How can you improve driving behavior with connected car technology?  
  Sjoerd Jonkers, ULU

17:00  Plenary feedback mini workshops

17:20  End workshop

### Symposium
19:00
# Program IJDS Symposium "Driving the Intelligent Vehicle"

## Thursday Jui

### Foyer

**08:30**
Coffee / tea

### Van Warmerdam zaal

**Conversation session**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Chair</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Breaking contradictions of driving automation&lt;br&gt;Interactive case study reviews accompanied with bold propositions.&lt;br&gt;Take position on propositions and reflect on them.</td>
<td>Joop Pauwelussen</td>
<td>Experts from industry and research, Participants</td>
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**Driver Vehicle Interaction**

<table>
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<th>Time</th>
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<tbody>
<tr>
<td>10:10</td>
<td>Performance of heterogeneous traffic – what can we expect?</td>
<td></td>
<td>Bert van Velzen, Swec, The Netherlands</td>
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<tr>
<td>10:30</td>
<td>Continuous auditory feedback for displaying automation status, lane deviation, and headway in a heavy truck</td>
<td></td>
<td>Pavlo Bazilinskiy*, Pontus Larson**, and Joost de Winter*</td>
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**Foyer**

**10:50**
Coffee / tea break

### Van Warmerdam zaal

**Parallel sess**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:10</td>
<td>Accident Avoidance&lt;br&gt;Evaluating the robustness of integrated control for collision mitigation with incoming vehicles with respect to steering effort</td>
<td>Frans Tillema</td>
<td>Bengt Jacobson***, Aditya Arikere*, Derong Yang**, Matthias Klem**, Mathias Lindberg***,&lt;br&gt;**American Axle &amp; Manufacturing, Trollhättan, Sweden; **Volvo Car Corporation, Göteborg, Sweden; ***Chalmers University of Technology, Göteborg</td>
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<tr>
<td>11:30</td>
<td>Driver out of the loop, infrastructure in the loop</td>
<td></td>
<td>Chris de Voe***, Province Noord-Holland, The Netherlands</td>
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<tr>
<td>11:50</td>
<td>Lane keeping systems and road marking. Improvements are needed</td>
<td></td>
<td>Evert Klem, Michel Scheermeijer***, Strategic Consultant, Royal HaskoningDHV, The Netherlands</td>
</tr>
<tr>
<td>12:10</td>
<td>A methodology and tool chain to design integrated safety systems</td>
<td></td>
<td>Martijn Tijssen*, TASS International, Einsteinlaan 6, 2289 CC, Rijswijk, The Netherlands</td>
</tr>
<tr>
<td>12:30</td>
<td>Increasing safe driving by young males at highway work zones&lt;br&gt;using in-car speed limits and road work warnings</td>
<td></td>
<td>Bram Bazuin, TU Delft / Advin, The Netherlands</td>
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**Foyer**

**12:50**
Lunch

### Van Warmerdam zaal

**Driver Vehicle Interaction**

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<tr>
<td>14:10</td>
<td>Smart driving, smart working – the added value of real world experience with partially automated vehicles</td>
<td></td>
<td>Onno Toll*, Tom Alikin, Gerben Bootsma, Rijkwaterstaat, The Netherlands</td>
</tr>
<tr>
<td>14:30</td>
<td>Changes in trust after driving level 2 automated cars</td>
<td></td>
<td>Francesco Walker*, Anika Boelhouwer*, Tom Alikin**, Willem Verwey*, Marieke Martens*,&lt;br&gt;*University of Twente, The Netherlands; **Rijkwaterstaat, The Netherlands; ***Connecting Mobility, **Goudappel Coffeng, ***Rijkwaterstaat</td>
</tr>
<tr>
<td>14:50</td>
<td>The effect of supervised driving in partially automated cars</td>
<td></td>
<td>Ilse Harms*, Matthijjs Dicke**, Gerben Bootsma***,**Connecting Mobility, **Goudappel Coffeng, ***Rijkwaterstaat</td>
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**Foyer**

**15:10**
Coffee / tea break

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<td>15:30</td>
<td>A driving operational behavior analysis based on the state transition model for autonomous vehicles</td>
<td></td>
<td>Yashshin Akeg*, Pongsathorn Raksincharoen*&lt;br&gt;*Tokyo University of Agriculture and Technology, Japan **TNO, The Netherlands ***University of Twente, The Netherlands</td>
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<tr>
<td>15:50</td>
<td>The effect of in-vehicle traffic management information on driver behaviour</td>
<td></td>
<td>Tineke Hof*, Isabel Moning**, TNO, The Netherlands&lt;br&gt;*University of Twente, The Netherlands&lt;br&gt;**TNO, The Netherlands&lt;br&gt;***University of Twente, The Netherlands</td>
</tr>
<tr>
<td>16:10</td>
<td>Investigating two-wheeler balance using experimental bicycles and simulators</td>
<td></td>
<td>George Dialynas*, Oliver Lee*, Marco Grotto*,**, Riender Happee*, Arend Schweb*&lt;br&gt;* Delft University of Technology, The Netherlands **Siemens Leuven, Belgium</td>
</tr>
<tr>
<td>16:30</td>
<td>One-sided cooperation between human driver and active accelerator pedal</td>
<td></td>
<td>Christopher Rosier, David Cole University of Cambridge, UK</td>
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<tr>
<td>16:50</td>
<td>How does the Netherlands prepare for the arrival of automatic vehicles. There are many opportunities! However, do we all do enough?</td>
<td></td>
<td>Joop Veenen, Johan Janse The Future Mobility Network</td>
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**17:10 uur Cl**
**Program IJDS Symposium "Driving the Intelligent Vehicle"**

**Une 14th**

**Session**

**Zeinum zaal**

**Vehicle Interaction**

**Mental workload in various driving settings: comparing real traffic and simulated environment**

Chair: Giovanni Huisken

Evaldas Laurinavicius, Tobias Heffelaar and Lucas P.J.J. Noldus, Noldus IT, the Netherlands

**Use case for EU truck platooning**

Angelo van Turenhout*, Jaap Vreeswijk*, Tom Alkim**, **MAP traffic management, the Netherlands; **Rijkswaterstaat, the Netherlands

**Development of online driving skill evaluation system for driver-vehicle interaction control**

Dong Zhang*, Timothy Gordon*, Changfu Zong**

*University of Lincoln, UK, **Zhaoqing University, China

**Plenary Workshop**

**Symposium dinner**
Program IJDS Symposium "Driving the Intelligent Vehicle"

15th

3einum zaal

Vehicle Adaptation

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<thead>
<tr>
<th>Topic</th>
<th>Chair: Joop Pauwelussen</th>
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<tr>
<td>Future highway design with autonomous driving.</td>
<td>Jos Vrieling, Serve Hermens</td>
</tr>
<tr>
<td>What will be the role of the 'driver' in highway design?</td>
<td>Arcadis, The Netherlands</td>
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CANCELLED

Talking Traffic - HMI Use Case VRI Information

Attention & the brain: detection of audio signals in driving and autonomous driving

Sharing the road with semi-autonomous vehicles
An experimental study on the experience of safety, control and responsibility

Jos Vrieling, Arcadis, The Netherlands

Chris Huijboom*, Arie Paul van den Beukel
*HAN Automotive Research, The Netherlands; *University of Twente, The Netherlands
Remo M.A. van der Heiden, Christian P. Janssen, Lotte E.S. Hardeman, Keri Mans, J. Leon Kenemans
Experimental Psychology & Helmholtz Institute, Utrecht

Janne Hofste, Jos Vrieling, Arcadis, The Netherlands

Thursday June 15th

Parallel sessions

Plenary session

Plenary session