

Autonomy and Safety when the Human is in the Loop – What can We Learn from Aviation, Maritime, Road and Rail?

Speakers from DUKE-HAL*, NTNU, AMOS** and SINTEF.
In association with the research project SAREPTA.

August 10th from 11:30 – 18:00
Clarion Hotel & Congress Trondheim, Brattørkaia 1

Program:

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| 11:30–12:00 | Lunch |
| 12:00–12:10 | Welcome |
| 12:10–12:40 | Øystein Haga Skånland/Ministry of Transport and Communications – <i>The National Transport Plan and Technological Advances in the Transport Sector</i> |
| 12:40–13:00 | Q&A and coffee break |
| 13:00–13:30 | Missy Cummings/HAL – <i>The human in the loop</i> |
| 13:30–14:00 | Ørnulf Rødseth/SINTEF Ocean – <i>Safe human interaction with autonomous ships in Trondheimsfjorden</i> |
| 14:00–14:15 | Coffee break |
| 14:15–14:45 | Edmund Førland Brekke/NTNU – <i>World's first Autonomous Passenger and Bicycle ferry</i> |
| 14:45–15:15 | Gunnar Jenssen/SINTEF Mobility and Safety – <i>Why are self-driving vehicles getting involved in crashes and what can we do to reduce conflicts with other road users?</i> |
| 15:15–15:45 | Coffee break |
| 15:45–16:15 | Thomas Porathe/NTNU – <i>The problem is not automation, the problem is communication: autonomy, human factors and safety</i> |
| 16:15–16:45 | Vegard Evjen Hovstein/Maritime Robotics |
| 16:45–17:00 | Coffee break |
| 17:00–18:00 | Guided tour and demonstrations by Maritime Robotics |

Presentations will be provided by e-mail to the participants after the conference.

*HAL at Duke University (from MIT): Is the International Research in the Humans and Autonomy Lab focused on the multifaceted interactions of human and computer decision-making in complex sociotechnical systems with embedded autonomy. Employing human-systems engineering principles to autonomous system modelling, design, and evaluation and identifying ways in which humans and computers can leverage the strengths of the other in an autonomous system to achieve superior decisions together is the focus of HAL

**NTNU AMOS - Centre for Autonomous Marine Operations and Systems (<https://www.ntnu.edu/amos>)

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Evaluering

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Kryss av under Vurdering, bruk ”+” om du er fornøyd og ”-” om du ikke er fornøyd. (Nøytral vurdering angis ved å krysse av under 0). Skriv utdypende kommentarer på side 1-2. (+ Good; 0- Neutral;- Poor)

Tema (Evaluation of presentation)	Evaluation			Utdypende kommentarer (Comments)
1) Øystein Haga Skånland/Ministry of Transport and Communication – <i>The National Transport Plan and Technological Advances in the Transport Sector</i>	+	0	-	
2) Missy Cummings/HAL – <i>The human in the loop</i>	+	0	-	
3) Ørnulf Rødseth/SINTEF Ocean – <i>Safe human interaction with autonomous ships in Trondheimsfjorden</i>	+	0	-	
4) Edmund Førland Brekke/NTNU – <i>World's first Autonomous Passenger and Bicycle ferry</i>	+	0	-	
5) Gunnar Jenssen/SINTEF Mobility – <i>Why are self-driving vehicles getting involved in crashes and what can we do to reduce conflicts with other road users?</i>	+	0	-	
6) Thomas Porathe/NTNU – <i>The problem is not automation, the problem is communication: autonomy, human factors and safety</i>	+	0	-	
7) AMOS	+	0	-	

Generelt (General Comments to the meeting)

Tematikk	Kommentarer/ønsker (Comments/ Suggestions)
Formen på møtet - lengde og format (Your opinion of the meeting – length; presentations in general; format; overall evaluation):	
Hvilke tema ønskes behandles i fremtiden? Forslag til sted? (Areas of interest, suggested themes to be discussed, places to visit?):	
Hvilke forelesere ønsker du deg? (Suggestions for key speakers – both individuals and/or institutions):	
Generelle kommentarer eller forslag/ Other Comments or suggestions	