

RESEARCHERS DAY

The digitalized transportation system – Making it safe and secure

17 October 2017

Introduction

AstaZero Researchers Days serve as a forum for researchers, experts and practitioners to explore and discuss recent research results, challenges and opportunities in the area of the automated transportation system.



Digitalization affects all parts of society. More units are connected to the internet, and data is shared to create new functions and novel business cases. This is true also for the transportation system. The road vehicles and the infrastructure are starting to share information, which will make it possible to create new safety functions. Cooperative Intelligent Transport Systems (C-ITS) will be a key technology to reach the zero vision in transport. Automated driving will also be supported by the digitalization of the transportation system.

The interaction is not for the vehicle itself, but for the complete transportation system comprising all vehicles and the infrastructure. Safety in transportation can potentially be increased, but we have to manage the new risks arising through application of this new technology. Technologies for C-ITS, information security, privacy issues, traffic management and standardization of communication, must be combined with existing competence in road safety. We welcome your presentation or demonstration on any of these subjects, or other subjects related to the digitalized transportation system.

Key note speakers



Autonomous vehicles and the transportation system – insights and challenges

Hamid Zarghampour
Chief Strategist,
Connected and automated
transports,
Swedish Transport
Administration

Hamid Zarghampour currently works as Chief Strategist, Connected and Automated Transports, at the Swedish Transport Administration. He started his career at the Swedish National Road Administration about 20 years ago. He has worked with Road asset management in general and long-term infrastructure planning in particular. During his career, Zarghampour has worked actively with implementing innovative transport solutions, aiming towards creating good accessibility in sustainable communities. Since 2012, he works with research and innovation in various areas of connected and automated vehicles as a potential for modernization of the road transport system.

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Reinventing the steering wheel? Challenges and opportunities in Traffic Management

Antoine de Kort
Strategic Advisor Traffic Management, Ministry of Infrastructure and the Environment, Rijkswaterstaat

Antoine de Kort works as a strategic advisor on traffic management at Rijkswaterstaat, the national road authority for the Netherlands Ministry of Infrastructure and the Environment. Since 1995, he has been working on many strategic and highly innovative programs concerning the design and control of systems in aerospace, railways and on roads. Antoine is currently responsible for strategy development, in particular on the transition of traffic management to support connected and automated driving. He is one of the founding fathers of the national roadmap 'Connecting Mobility' (2013) which has been adopted by the Minister as the long-term policy for Traffic Management and ITS in the Netherlands. He is involved in various international working groups for connected and automated driving including GEAR2030, CEDR (Conference of European Directors of Roads) and the Amsterdam Group. Antoine has a Master of Science degree in Mathematical Engineering at the Delft University of Technology.



The digital mine

Peter Burman
Program manager mine automation
Boliden

Peter Burman holds a master of science and an M.B.A. Mr. Burman has been Project Manager in the Mine Automation Program since 2012. 2015 he was appointed Program manager for the whole mine automation Program. Initially working for Boliden 1988-1995 he went to the telecom business. During 17 years at Ericsson and Ascom he worked in various positions like R&D manager and Business Area Manager.

He is also coordinates Boliden's contacts with some European universities and research organizations.