

CARS 2024 Program

8:30 - 9:00 – Registration

9:00 - 10:30 – Invited talk session

- 09:00 Artificial Intelligence, Safety and Explainability (SAFEXPLAIN)
Jon Perez Cerrolaza (Ikerlan, Spain)
- 10:00 Upgrading the Systems Safety Engineering Culture in a Data-Oriented World
Hugues Bonnin, Lucian Alecu and Olivier Flebus.

10:30 - 11:00 – Coffee Break

11:00 - 12:30 – Session 1 : Risk analysis and assesment

- 11:00 Continuous Risk Assessment for Automated Driving Systems using Random Forest
Anil Ranjitbhai Patel, Kunjkumar Thummar and Peter Liggesmeyer
- 11:30 Towards an Elaborated Hazard Analysis and Risk Assessment for Highly Automated Vehicles
Nikita Bhardwaj Haupt and Peter Liggesmeyer
- 12:00 An Extension of the Rasmussen Socio-technical System for Continuous Safety Assurance
Barbara Gallina, Peter Munk and Markus Schweizer

12:30 - 14:00 – Lunch Break

14:00 - 15:30 – Session 2: Safety-critical system development

- 14:00 Towards integrating STPA into DevOps lifecycle
Pavel Nedvědický, Eva Zimmermann and Stefan Wagner
- 14:30 Choosing Risk Acceptance Criteria for Safe Automated Driving
Fredrik Sandblom, Gabriel Rodrigues de Campos, Peter Hardå, Fredrik Warg and Fredrik Beckman
- 15:00 AI-FSM: Towards Functional Safety Management for Artificial Intelligence-based Critical Systems
Javier Fernández, Irune Agirre, Jon Perez-Cerrolaza, Lorea Belategi, Ana Adell, Carlo Donzella and Jaume Abella

15:30 - 16:00 – Coffee Break

16:00 - 17:30 – Session 3: Resilience and open issues

- 16:00 Extending V2X Messages for the Implementation of Consensus-Building Mechanisms in C-ITS
Emanuel Vieira, João Almeida, Joaquim Ferreira and Paulo Bartolomeu
- 16:30 The Paradox of Disappearing Hazards
Rolf Johansson, Hakan Sivencrona and Fredrik Sandblom
- 17:00 Safety of the Intended Functionality: What about Mental Harm?
Barbara Gallina