

# CARS 2022 ----- 6th International Workshop on Critical Automotive Applications: Robustness & Safety ----- September 12, 2022

9:15 – 9:30 - **Workshop Presentation** - Jean-Charles Fabre, Rolf Johansson and Mario Trapp

9:30 - 10:30 – **Keynote Speech 1**

- *Session chair: Rolf Johansson, ASTUS, Sweden*

*Paulo Verissimo, KAUST, Saudi Arabia*

**Towards Cyber Resilient Autonomous Vehicle Ecosystems: Pitfalls and Enablers**

Q & A

10:30 - 11:00 *Break*

11:00 - 12:30 **Session 1 – Safety & Real-Time**

- *Session chair: Mario Trapp, Fraunhofer IKS, Germany*

- *Rolf Johansson and Phil Koopman, **Towards a Continuous Learning of Safety Process Effects***
- *Spencer Deevy, Alan Wassying, Mark Lawford, Vera Pantelic & Richard Paige, **Sentinel: A Safety Architecture for SAE J3016 Level 5 Autonomous Vehicles***
- *Alexis Generes and Michaël Lauer, **Experimental Platform for Testing Cache Allocation Policies to Improve Linux Real-Time Behaviour***

12h30 – 14h00 – *Lunch*

14h00 – 14h30 **Open discussion on morning session**

14h30 – 15h30 **Keynote Speech 2**

- *Session chair: Jean-Charles Fabre, LAAS, France*

*Juan-Carlos Ruiz-Garcia, UPV, Spain*

**Reconfigurable logic for automotive edge computing: from promises to dependability assessment challenges**

Q & A

15:30 – 16:00 *Break*

16h00 – 17h30 **Session 2 – Security & Safety**

- *Session chair: Matthieu Roy, LAAS, France*

- *Ali Shoker and Paulo Esteves-Verissimo, **Intrusion Resilience Systems for Modern Vehicles***
- *Pierre Kleberger, Peter Folkesson and Behrooz Sangchoolie, **An Integrated Safety and Cybersecurity Resilience Framework for the Automotive Domain***
- *Hugues Bonnin & Lucian Alecu, **How can low reliability components improve safety ?***

17h30 - 18:00 - *Open discussion on afternoon session*

18:00 – 18:15 - **Wrap-up & closing remarks** - Rolf Johansson, Jean-Charles Fabre, and Mario Trapp