IEEE VTC2022-Spring

ExpCCAM: Experimental Approaches for Evaluating and Showcasing Low-Latency CCAM Applications

– Call for workshop papers –

Assessing the performance of Cooperative, Connected, and Automated Mobility (CCAM) applications and associated wireless technologies has been the subject of many research studies during the last few years. Numerical analysis, simulation, emulation, and physical demonstrators are all approaches that have been used by the scientific community to experiment, prototype and test their work – but often in a scattered way and with only little potential for re-use. At least this was the case before the efforts made through popular experimentation frameworks like Eclipse SUMO, OMNeT++, OpenAirInterface, and many others – paving the way for accessible, realistic interfaces with real-time components.

In this context, this workshop aims to bring together the research community working on experimental approaches for evaluating, testing, and showcasing the capabilities of CCAM applications in the era of ultra low-latency communication technologies, and more specifically 5G. With a network infrastructure not being deployed on Europe's major roads until 2025, it is of tremendous interest to propose solutions to study the deployment and scalability potential of future CCAM applications – which might involve varying architecture requirements and protocol choices (e.g., 5G NR, LTE, IEEE 802.11p).

This workshop is specifically targeting contributions that showcase laboratory-sized, fully reproducible experiments, be it numerically or in a physical format. Relevant topics include, but are not limited to:

- Performance evaluation of vehicular networks for automotive services
- Simulation or emulation of low-latency communication networks, including 5G
- Simulation or emulation of CCAM services
- Physical demonstrators and prototypes of low-latency networks and/or CCAM applications
- Platforms for raising awareness about the benefits of low-latency communication and connected mobility
- Experiments of vehicular network technologies for automotive services
- All of the above, but applied to applications comparable or similar to CCAM for demonstration purposes

Information about the workshop organization:

- Organizers: Dr Sébastien Faye <sebastien.faye@list.lu>, Dr Ion Turcanu <ion.turcanu@list.lu> (Luxembourg Institute of Science and Technology - LIST)
- Peer review activities will be additionally supported by Dr Maximilian Matthe (Barkhausen Institut)

Deadlines
Workshop paper submission Extended: 10 March 2022
Acceptance notification: 17 April 2022
Final paper submission due: 1 May 2022

Submission requirements:
To submit a paper to this workshop, please visit:
https://vtc2022s-rr-wks.trackchair.com/track/2044