



Conference



High Quality Positioning: a Key to Success for Autonomous Driving

- **Date:** 4th of October 2017
- **Location:** BluePoint Brussels, 80 Bd. A. Reyers <https://goo.gl/maps/dX7RERxy6TC2>
- **Joint organisation:** COST SaPPART & ERTICO
- **Organisers:** François Peyret, Pierre-Yves Gilliéron: chairs of SaPPART; François Fischer: ERTICO

Conference abstract

The deployment of autonomous vehicles is becoming a reality on the European road network and will significantly affect the future liability of different actors in the road and transport sectors. Liability is strongly linked with the trust that you can have in a system, like a vehicle with advanced driver assistance or automatic driving capabilities. In these applications the vehicle positioning is one of the most critical components because most of the decisions are based on the location of the vehicle itself and of other vehicles and objects in its vicinity.

This conference is the final event of the European COST Action "Satellite Positioning Performance Assessment for Road Transport" (SaPPART). At this occasion, the main outcomes of the Action will be presented within the context of very demanding applications, like autonomous driving.



Objectives

The conference will discuss the main challenges of high quality positioning and will highlight the necessity to assess the positioning performances with respect to standards and well defined test procedures. The main objective is to raise awareness on the importance of positioning performance assessment for safety and liability critical applications. For the SaPPART Action, it will be the opportunity to:

- Present the main challenges of positioning for the road ITS applications
- Introduce some basic procedures for the positioning performance assessment
- Illustrate the concept in the framework of safety-critical road ITS applications
- Discuss with the main stakeholders the key issues of positioning and navigation for autonomous driving

Participant profile

- Automotive industry, map providers, ITS suppliers, Telecom industry
- Road authorities and operators
- European institutions
- Standardisation bodies

- European projects dealing with positioning and mapping
- Test laboratories

About COST TU 1302 - SaPPART

COST is a European framework supporting trans-national cooperation among researchers, engineers and scholars across Europe. In this context a network of European experts has defined a COST Action (TU 1302) within the transport and urban domain called “Satellite Positioning Performance Assessment for Road Transport (SaPPART)”. This Action gathers scientists, industrial and governmental partners from the GNSS community and the ITS domain, with the capacity to act for a common goal on the definition of positioning integrity in the road sector. They have addressed together the open issues and have supported the success of the standardisation for underpinning certification initiatives. This framework is expected to pave the way for certified positioning terminals, which is expected to result in a significantly accelerated use of GNSS-based ITS and mobility applications.

COST: http://www.cost.eu/about_cost

COST TU 1302: http://www.cost.eu/COST_Actions/tud/TU1302

SaPPART: <http://www.sappart.net/>

About ERTICO

ERTICO - ITS Europe is a partnership of around 100 companies and institutions involved in the production of Intelligent Transport Systems (ITS). Together, ERTICO Partners conduct a range of activities to develop and deploy ITS to save lives, protect the environment and sustain mobility in the most cost-effective way.

<http://ertico.com/>

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Registration

The participation to the conference is free of charge. For the registration, please use the following link:
<https://www.eventbrite.com/e/high-quality-positioning-a-key-to-success-for-autonomous-driving-tickets-35383303413>

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The number of participant is limited: first come first served.

Program of the Final SaPPART Conference

High Quality Positioning: a Key to Success for Autonomous Driving

Joint organisation: SaPPART COST Action & ERTICO

#	Duration	Start at	Topic	Presenter
1	10'	10:00	Introduction of the conference	François Peyret – Ifsttar
Session 1: SaPPART: a COST Action dedicated to GNSS technology in ITS				
Chair: François Peyret				
2	15'	10:10	The expectations of the automotive community with regards to GNSS for AD	Javier Ibanez-Guzman - Renault
3	15'	10:25	The SaPPART COST Action main outcomes and deliverables	P.-Y. Gilliéron - SaPPART
4	15'	10:40	GSA viewpoint on GNSS for Autonomous Driving	Alberto Fernandez - GSA
	30'	10:55	Coffee break	
5	15'	11:25	Status of standardization and regulation with regards to GNSS in ITS	Jesper Engdahl - SaPPART
6	15'	11:40	How to model the positioning error ?	David Bétaille - SaPPART
7	15'	11:55	Which positioning terminal for which application ? The Sensitivity Analysis	Mihai Niculescu - SaPPART
8	15'	12:10	How to test a GNSS-based positioning terminal ?	Laura Ruotsalainen - SaPPART
9	30'	12:25	Q/A session	
	60'	12:55	Lunch break	
Session 2: On-going R&D projects on Autonomous Vehicles positioning				
Chair: François Fischer				
10	25'	14:00	InLANE project	Oihana Oteagui - VicomTech
11	25'	14:25	ESCAPE project	Enrique Domínguez - GMV
12	25'	14:50	InDrive project	Riccardo Scopigno - ISMB
13	25'	15:15	The Grand Cooperative Driving Challenge	Philippe Bonnifait - UTC
	60'	15 :40	Panel discussion	Washington Ochieng - IC
14	30'	16:40	Networking coffee	
		17:10	End of the conference	

Scientific Committee

François Peyret	Ifsttar	France	(Chair)
François Fischer	ERTICO	Belgium	
Alberto Fernandez	GSA	Europe	
Pierre-Yves Gilliéron	EPFL	Switzerland	
Mihai Niculescu	ITS Romania	Romania	
Laura Ruotsalainen	NLS	Finland	
David Bétaille	Ifsttar	France	
Shaojun Feng	Imperial College	UK	
Jesper Engdahl	Rapp Trans	Switzerland	
Ola Martin Lykkja	Q-Free	Norway	