



Workshop Automotive Radar Technology



May 7, 2020; 9.30 am

Speaker: **Dr. Florian Pfeiffer, CEO and founder of  perisens**

Workshop Content:

• Radar Technology

- Brief history of radar (from the invention in 1904 to the automotive radar sensor)
- Basics radar technology (electromagnetic wave properties and propagation effects)
- Methods of distance measurements in automotive radar sensors (pulse, FMCW, chirp sequence FMCW)
- Methods of velocity measurements in automotive radar sensors (doppler)
- Methods of Direction of Arrival (DoA) measurements in automotive radar sensors (amplitude and phased based methods, digital beamforming, concept of virtual (MiMo) and sparse array configuration)
- Radar signal processing (from raw data to object data)
- Radar vs. other sensor technologies (camera, ultra-sonic and LIDAR)
- Future trends in automotive radar

• Integration of the radar into the vehicle

- Influences of the integration (radome) on the radar performance
- Relevant material properties (plastic and paint) and measurement principles
- Design principles of radar covers (radomes)
- Radome test solutions

Conditions:

Services:

- One-day workshop including 77 GHz radar life demonstration (approx. 6 hours + subsequent discussion)
- Training documents for all participants
- Participant certificates
- incl. catering
- Language: English

Location:



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Registration fees: 600 EUR + 19% VAT

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