

The Car of the Future will reinvent personal mobility

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Abstract

The regulations for CO2 and pollutant reduction have pushed the automotive industry for more electrification. The internal combustion engines will continue to power our vehicles for decades but will be assisted by electric traction in various xEV architectures. The race for efficiency, environment friendly, and safety will not end here. Automated and autonomous driving cars are opening a new field of benefits, but also a new field of challenges. The engineers will have to reinvent the EE vehicle architecture for new domain control and fail operational systems. The cars will be connected to other cars and the infrastructure with software update over the air. The new vehicles will be real cyber physical systems. This keynote will explore the potential of electronic technologies to solve the new requirements in sensing, controlling, powering, energizing the car of the future.

Key items:

- Car Electronic system design & Test
- Car EE Architecture
- Car Electrification
- Connected Car
- Car Safety and Security
- Software update over the air
- Form Advance Driver Assistance System to Autonomous Driving