

The connected car and its implication to the automotive chip roadmap

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Abstract:

The automotive industry is in a radical change process driven by technology. On the one hand side the proliferation of communication technologies into the car leads to internet connected vehicles. The vehicle will become an integral part of the internet – opening new processing paradigms for the car itself. On the other hand the vehicle itself significantly expands its sensor and processing capabilities by the use of radar, video, ultrasound sensors and usage of state of the art CPU and GPU processor architectures. In our talk we will address both developments and outline foreseen future applications as future driving assistant and infotainment systems as well as highly automated driving. We will discuss major requirements for the future electrical architectures and implications for future automotive chips.