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Innovation@Vodafone: 5G&Internet of Things



H. Kremling
chairman
Vodafone Enterprise Plenums, Düsseldorf, Germany

Abstract

Fast and reliable networks are a prerequisite for the "Internet of Things". Therefore international researchers, technology companies and representatives from all industries are making developments together for the foundations of the network technology of the future at the 5G Lab Germany in Dresden. 5G will enable a comprehensive real-time communication. Speeds in the gigabit range and latencies of 1 millisecond will thus be a reality.

Biography

As Vodafone Ambassador, Hartmut Kremling coordinates numerous innovation projects and cooperates with colleges and universities at home and abroad. Born in Saxony he enjoys a close partnership with the Technical University of Dresden, where Vodafone has more than 20 years of supporting the Chair for Mobile Communications Systems.

How innovation and eco-system in Europe can enable future requirements in automotive electronics



P. Boudre
Chairman and CEO
SOITEC, Bernin, France

Abstract

Exciting new applications such as autonomous cars are driving electronics industry growth and contributing to innovations. Today's automobile designs have nearly 100 microprocessors; this number is expected to double in just five years (according to Clemson University's International Center for Automotive Research).

Automotive electronics is a large market and is going through a major transition, as cars have increased computing power in both the drive train and the dashboard, for advanced driving assistance and infotainment for example. On the way to the autonomous car, increasing functionalities and new features will require the most advanced technologies while reliability, low-power and cost remain key. A European innovation like FD-SOI technology is a key enabler to meet future requirements in automotive electronics, such as high reliability, excellent soft-error performance, and well-managed leakage in high temperature environment (150°C).

In addition, Europe has a leading position at all levels in the automotive industry. Automotive electronics is a great opportunity for Europe to provide a unique value proposition throughout the whole value chain, from substrate to cars manufacturers, giving Europe strong leading position on this growing market.

Biography

Paul Boudre joined the company in 2007. He was appointed Chief Executive Officer with effect from 16 January 2015.

A semiconductor-industry veteran of more than 30 years, Paul Boudre gained extensive international experience through his previous positions managing industrial operations for IBM Semiconductor, STMicroelectronics, Motorola Semiconductor, and Atmel. From 1997 to 2006, he managed European operations for KLA-Tencor, one of the world's top five semiconductor equipment manufacturers. He was subsequently appointed Vice President for both the US and Europe.

Paul Boudre holds a graduate degree in chemistry from France's Ecole Nationale Supérieure de Chimie de Toulouse.

Gender aspects in innovation practices: status and opportunities



M. Schraudner
Head of Fraunhofer Center for Responsible Research and Innovation
Fraunhofer IAO, Stuttgart, Germany

Abstract

Dynamic markets require quick solutions and creative ideas. Seeking to holistically tap innovation and market potential, both the perspectives of women and men must be accommodated. Our recent research results show: The underrepresentation of women in STEM subjects explains the small number of high-tech founders only partially. Women involved in ideation and creation processes often take a "place in the second row".

Biography

Prof. Dr. Martina Schraudner is the Head of Fraunhofer Center for Responsible Research and Innovation. Her research focuses on methods, instruments and processes to make diversity accessible and manageable for organizations and companies. Prof. Dr. Martina Schraudner is a member of several national and international selection committees.