**Driver Assistance Systems: Challenges for Automotive System and Software Design.**

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**Abstract:**
First some recent developments in the domain of driver assistance systems are presented. They are used to motivate the challenges automotive suppliers are facing today in system and SW design. Then some examples for new design methods, tools and processes are given which are used to overcome the current design limitations.

**Biography:**
In 1987 Dr. Thomas Kropf got his diploma degree in electrical engineering at the University of Darmstadt, Germany. He then moved to the University of Karlsruhe, Germany. There, he worked as a research assistant at the department of computer science. His research covered different areas of VLSI design, test and formal verification. In 1992 Dr. Kropf received his Ph.D. degree. He then founded a research group which was performing research on formal methods for designing correct circuit and system design. After his habilitation he spend some time at Synopsys Inc., Mountain View, CA.

In 1999 Dr. Kropf moved to Robert Bosch GmbH, Germany. He held management positions in ASIC design and SW development. Today he is vice president for system and SW engineering at the business unit "Driver Assistance Systems". He is responsible for the development of all driver assistance systems at Bosch, ranging from the well-known ultrasonic parking aid to the automatic emergency brake, which will be available in a couple of years.