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With the total number of vehicles steadily increasing and soon approaching one billion, the world is facing serious challenges in terms of both safety of road transport and sustainability. Consequently the two major persistent issues for the automotive industry are improved safety and reduced emissions. The estimated

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number of road fatalities is about one million per year. Fast growth of mobility in the developing world and an accelerated urbanisation pose high demands to the automotive industry. Thanks to smart systems anticipating dangerous traffic situations road fatalities will have dropped by more than 30% from 2001 to 2010. Beyond intensive stock-rearing - with 30% the major contributor to climate change - road traffic is one of the main sectors contributing to climate change: exhaust gases from vehicle engines account for about 20% of the greenhouse gas emissions. Car industry is bearing this challenge and enormous progress has been achieved particularly during the last decade.

Microsystems are an important factor that contribute to an automobile model's success. To meet the customer's desire for safety, convenience and vehicle economy, and to satisfy environmental standards, microsystems play a critical factor. Microsystems applications (MST) have already resulted in improved performance and better value for money. But the advances implemented reveal only the beginning of a revolution in the vehicle sector, which aims at a complete transition from the mechanically driven automobile system to a mechanically based but ICT-driven system. The selected contributions from AMAA 2003 treat safety (both preventive and protective), powertrain (online measurement and control of engine and transmission subsystems), comfort and HMI (systems to enhance the comfort of passengers and human machine interface issues), and networked Vehicle (all aspects of intra car systems and ambient communication networks).

From the beginnings of the International Forum on Advanced Microsystems for Automotive Application (AMAA) to the recent 11th AMAA Forum, enormous progress has been made in reducing casualties, emissions and in increasing comfort and performance. In many cases Microsystems provided key functions for this progress. This publication is a cut-out of new technological priorities in the area of microsystems-based smart devices, taking a mid-term perspective of future smart systems applications in automobiles.

Since 1995 the annual international forum on Advanced Microsystems for Automotive Applications (AMAA) has been held in Berlin. The event offers a unique opportunity for microsystems component developers, system suppliers and car manufacturers to show and to discuss competing technological approaches of microsystems based solutions in vehicles. The book accompanying the event has demonstrated to be an efficient instrument for the diffusion of new concepts and technology results. The present volume including the papers of the AMAA 2005 gives an overview on the state-of-the-art and outlines imminent and mid-term R&D perspectives. The 2005 publication reflects - as in the past - the current state of discussions within industry. More than the previous publications, the AMAA 2005 "goes back" to the technological requirements and indispensable developments for fulfilling the market needs. The large part of contributions dealing with sensors as well as

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"sensor technologies and data fusion" is exemplary for this tendency. In this context a paradigm shift can be stated. In the past the development focused predominantly on the detection and processing of single parameters originating from single sensors. Today, the challenge increasingly consists in getting information of complex situations with a series of variables from different sensors and in evaluating this information. Smart integrated devices using the information deriving from the various sensor sources will be able to describe and assess a traffic situation or behaviour much faster and more reliable than a human being might be able to do. Additional information is available on www.amaa.de

The automobile is going through the biggest transformation in its history. Automation and electrification of vehicles are expected to enable safer and cleaner mobility. The prospects and requirements of the future automobile affect innovations in major technology fields like driver assistance systems, vehicle networking and drivetrain development. Smart systems such as adaptive ICT components and MEMS devices, novel network architectures, integrated sensor systems, intelligent interfaces and functional materials form the basis of these features and permit their successful and synergetic integration. It has been the mission of the International Forum on Advanced Microsystems for Automotive Applications (AMAA) for more than fifteen years to detect novel trends and to discuss the technological implications from early on. Therefore, the topic of the AMAA 2014 will be "Smart Systems for Safe, Clean and Automated Vehicles". This book contains peer-reviewed papers written by leading engineers and researchers which all address the ongoing research and novel developments in the field.

Microsystems are an important success factor in the automobile industry. In order to fulfil the customers requests for safety convenience and vehicle economy, and to satisfy environmental requirements, microsystems are becoming indispensable. Thus a large number of microsystem applications came into the discussion. With the international conference AMAA '99, VDI/VDE-IT provides a platform for the discussion of all MST relevant components for automotive applications. The conference proceedings gather the papers by authors from automobile suppliers and manufacturers.

The automobile of the future has to meet two primary requirements: the super-efficient use of energy and power and the ultra-safe transportation of people and goods. Both features are increasingly enabled by smart, adaptive and context aware information and communication technologies (ICT), elect- cal or electronic components and systems rather than solely by the mecha- cal means of classic automotive engineering. The most advanced example of this trend is the electrified vehicle combining a full electric powertrain with

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completely electronic controls like smart power and energy managers, ste- by-wire technologies and intelligent networking capabilities allowing all p- viders and consumers of energy to work in efficient synergy. In the course of this year the first series production electric vehicles will finally come into the market. Automakers - unsure if electric vehicles would really sell - have long time been hesitant to make the necessary changes of their product portfolios. In the coincidence of economic crisis and growing concerns about global warming and energy security companies and public authorities jointly succeeded to overcome many obstacles on the path towards electrifi- tion.

Microsystems are an important success factor in the automobile industry. In order to fulfil the customers requests for safety convenience and vehicle economy, and to satisfy environmental requirements, microsystems are becoming indispensable. Thus a large number of microsystem applications came into the discussion. With the international conference AMAA 2002, VDI/VDE-IT provides a platform for the discussion of all MST relevant components for automotive applications. The conference proceedings gather the papers by authors from automobile suppliers and manufacturers.

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The current economic crisis is cutting the automotive sector to the quick. Public authorities worldwide are now faced with requests for providing loans and accepting guarantees and even for putting large automotive companies under state control. Assessing the long-term benefits of such help and weighing the needs of different sectors against each other poses a major challenge for the national policies. Given the upcoming change of customer preferences and state regulations towards safety, sustainability and comfort of a car, the automotive industry is particularly called to prove its ability to make necessary innovations available in order to accelerate its pace to come out of the crisis. Consequently the Green Car is assuming a prominent role in the current debate. Various power train concepts are currently under discussion for the Green Car including extremely optimised internal combustion engines, hybrid drives and battery-electric traction. Electrical cars are the most appealing option because they are free of local emissions and provide the opportunity to use primary energy from sources other than crude oil for transport. Well to wheel analysis show that their greenhouse gas emissions can be rated negligibly small if electricity from renewable sources like wind and solar is used.

Microsystems applications (MST) in automobiles have become commonplace: they enable the introduction of a series of new functions and at the same time the replacement of existing technologies offering improved performance and better value for money. Microsystems are indispensable for fulfilling a complete transition from the mechanically driven automobile system to a mechanically based but ICT-driven system as part of a likewise complex environment. With the introduction of micro-systems a series of challenges arise regarding complexity, systems design, reliability, serviceability, etc. These challenges have to be addressed in order to meet high customer expectations concerning performance and price.

This book contains the papers presented at the 20th anniversary edition of the AMAA conference held in Brussels, Belgium in 2016. The theme of the conference was "Smart Systems for the Automobile of the Future". The automobile is currently being reshaped at unprecedented pace. Automation and electrification are the two dominant megatrends which dramatically change the choice and design of components, systems, vehicular architectures and ultimately the way we use cars in the coming decades. Novel E/E architectures, vehicular connectivity and cloud services will be key to extending the perception and decision-making horizons of automated vehicles, to enable cooperative functions and a seamless digital user experience. The AMAA's ongoing mission to detect novel trends in automotive ICT, electronics and smart systems and to discuss the technological implications is once again reflected in this volume. The book will be a valuable read for research experts and professionals in the automotive and smart systems industry but the book may also be beneficial for graduate students.

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The road vehicle of the future will embrace innovations from three major automotive technology fields: driver assistance systems, vehicle networking and alternative propulsion. Smart systems such as adaptive ICT components and MEMS devices, novel network architectures, integrated sensor systems, intelligent interfaces and functional materials form the basis of these features and permit their successful and synergetic integration. They increasingly appear to be the key enabling technologies for safe and green road mobility. For more than fifteen years the International Forum on Advanced Microsystems for Automotive Applications (AMAA) has been successful in detecting novel trends and in discussing the technological implications from early on. The topic of the AMAA 2013 will be "Smart Systems for Safe and Green Vehicles". This book contains peer-reviewed papers written by leading engineers and researchers which all address the ongoing research and novel developments in the field. www.amaa.de

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This book gathers papers from the 23rd International Forum on Advanced Microsystems for Automotive Applications (AMAA 2020) held online from Berlin, Germany, on May 26-27, 2020. Focusing on intelligent system solutions for auto mobility and beyond, it discusses in detail innovations and technologies enabling electrification, automation and diversification, as well as strategies for a better integration of vehicles into the networks of traffic, data and power. Further, the book addresses other relevant topics, including the role of human factors and safety issues in automated driving, solutions for shared mobility, as well as automated bus transport in rural areas. Implications of current circumstances, such as those generated by climate change, on the future development of auto mobility, are also analysed, providing researchers, practitioners and policy

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makers with an authoritative snapshot of the state-of-the-art, and a source of inspiration for future developments and collaborations.

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book are selected from the submissions to the 15th International Forum on Advanced Microsystems for Automotive Applications (AMAA 2011) "Smart Systems for Electric, Safe and Networked Mobility". They cover components, architectures and smart systems enabling the following functionalities: electric driving, safe cars and roads, and connected vehicles. Additional information is available at www.amaa.de

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Microsystems applications (MST) in automobiles have become commonplace: they enable the introduction of a series of new functions and at the same time the replacement of existing technologies offering improved performance and better value for money. Microsystems are indispensable for fulfilling a complete transition from the mechanically driven automobile system to a mechanically based but ICT-driven system as part of a likewise complex environment. With the introduction of micro-systems a series of challenges arise regarding complexity, systems design, reliability, serviceability, etc. These challenges have to be addressed in order to meet high customer expectations concerning performance and price.

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This volume of the Lecture Notes in Mobility series contains papers written by speakers and poster presenters at the 21st International Forum on Advanced Microsystems for Automotive Applications (AMAA 2017) "Smart Systems Transforming the Automobile" that was held in Berlin, Germany in September 2017. The authors report about recent breakthroughs in electric and electronic components and systems, driver assistance and vehicle automation as well as safety and testing. Furthermore, legal aspects and impacts of connected and automated driving are covered. The target audience primarily comprises research experts and practitioners in industry and academia, but the book may also be beneficial for graduate students alike.

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This edited volume presents the proceedings of the AMAA 2015 conference, Berlin, Germany. The topical focus of the 2015 conference lies on smart systems for green and automated driving. The automobile of the future has to respond to two major trends, the electrification of the drivetrain, and the automation of the transportation system. These trends will not only lead to greener and safer driving but re-define the concept of the car completely, particularly if they interact with each other in a synergetic way as for autonomous parking and charging, self-driving shuttles or mobile robots. Key functionalities like environment perception are enabled by electronic components and systems, sensors and actuators, communication nodes, cognitive systems and smart systems integration. The book will be a valuable read for research experts and professionals in the automotive industry but the book may also be beneficial for graduate students.

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The ambitious objectives of future road mobility, i.e. fuel efficiency, reduced emissions, and zero accidents, imply a paradigm shift in the concept of the car regarding its architecture, materials, and propulsion technology, and require an intelligent integration into the systems of transportation and power. ICT, components and smart systems have been essential for a multitude of recent innovations, and are expected to be key enabling technologies for the changes ahead, both inside the vehicle and at its interfaces for the exchange of data and power with the outside world. It has been the objective of the International Forum on Advanced Microsystems for Automotive Applications (AMAA) for almost two decades to detect novel trends and to discuss technological implications and innovation potential from day one on. In 2012, the topic of the AMAA conference is "Smart Systems for Safe, Sustainable and Networked Vehicles". The conference papers selected for this book address current research, developments and innovations in the field of ICT, components and systems and other key enabling technologies leading to the automobile and road transport of the future. The book focuses on application fields such as electrification, power train and vehicle efficiency, safety and driver assistance, networked vehicles, as well as components and systems. Additional information is available at www.amaa.de

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