

Advanced Microsystems For Automotive Applications 2010

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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), electrical or electronic components and systems rather than solely by the mechanical means of classic automotive engineering. The most advanced example of this trend is the electrified vehicle combining a full electric powertrain with completely electronic controls like smart power and energy managers, steer-by-wire technologies and intelligent networking capabilities. It has been the mission of the International Forum on Advanced Microsystems for Automotive Applications (AMAA) for more than twelve years now to detect paradigm shifts and to discuss their technological implications at an early stage. Therefore, the topic of the AMAA 2010 is Smart Systems for Green Cars and Safe Mobility. This book contains peer-reviewed conference papers presented at the conference by experts of major companies and leading academic institutions. They report on ongoing research and novel developments in the field of ICT, components and systems enabling the automobile and road transport of the future. A particular focus is on basic technologies and advanced applications of electrified and electric vehicles, road and passenger safety, driver assistance, traffic management and powertrain efficiency. Due to this broad coverage of topics related to sustainability of the automobile both the AMAA event and this book serve the spreading of knowledge generated in the framework of the European Green Cars Initiative. Additional information is available on amaa.de.

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