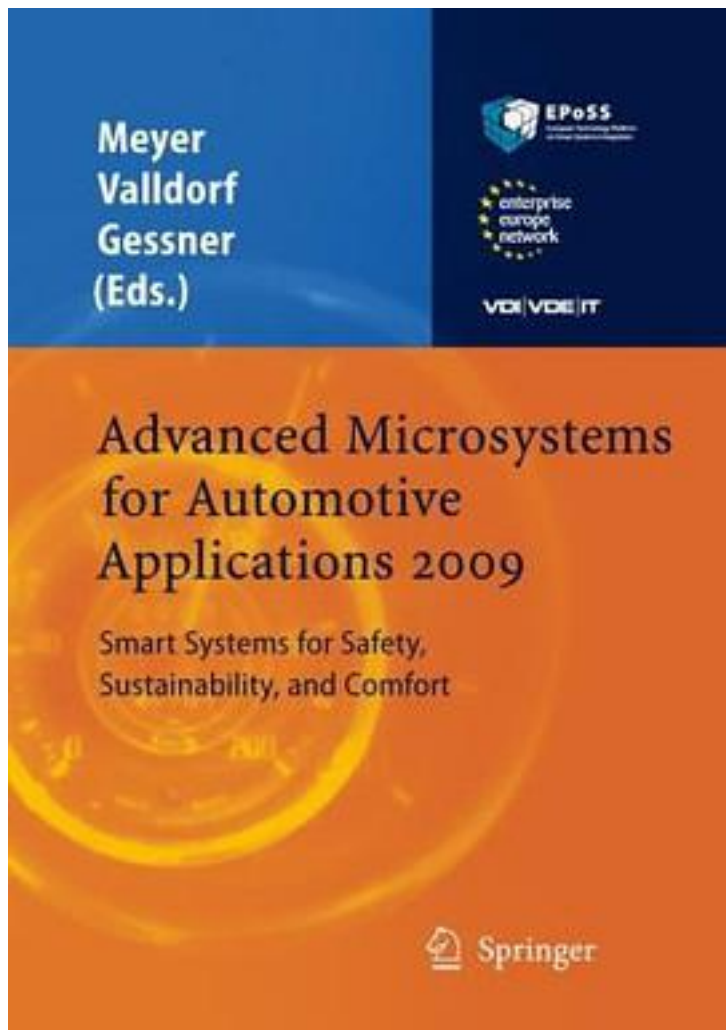


Advanced Microsystems for Automotive Applications 2009



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The upcoming change of costumersa (TM) preferences and state regulations towards safety, sustainability and comfort of a car is calling the automotive industry to make the necessary innovations available in order to accelerate its pace on the way out of the economic crisis. Smart miniaturized systems and ICT based solutions are considered the key enablers of future mobility technologies like novel power train concepts including electrical traction, cooperative safety systems, advanced driver assistance systems as well as car-to-car and car-to-infrastructure communication. The International Forum on Advanced Microsystems for Automotive Applications (AMAA) has been an exclusive showroom of RandD activities in this domain for more than a decade. In 2009 its topic is "Smart Systems for Safety, Sustainability, and Comfort." The papers published in this book were selected from more than 40 submissions. Highlights include contributions on the scope of two European projects related to the Green Car, EE-VERT aiming at the development of energy-efficient vehicles for road transport, and E3Car doing research on nanoelectronics as a key enabler of electrical vehicles. Furthermore, several authors are reporting first results of the INTERSAFE-2 project that is dealing with cooperative intersection safety. Likewise prominent topics are a detector for left-behind occupants, novel driver assistance systems and several other highly integrated components for various applications in the automobile. Additional information is available on www.amaa.de

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目录:

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