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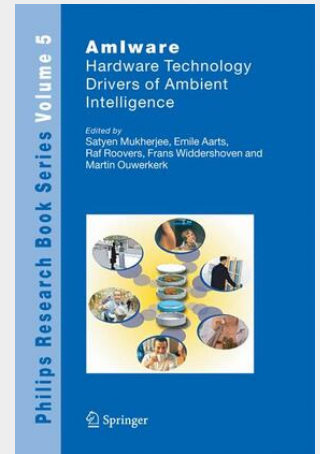# AmIware

Hardware Technology Drivers of Ambient Intelligence

Ambient Intelligence is one of the new paradigms in the development of information and communication technology, which has attracted much attention over the past years. The aim is the to integrate technology into people environment in such a way that it improves their daily lives in terms of well-being, creativity, and productivity. Ambient Intelligence is a multidisciplinary concept, which heavily builds on a number of fundamental breakthroughs that have been achieved in the development of new hardware concepts over the past years. New insights in nano and micro electronics, packaging and interconnection technology, large-area electronics, energy scavenging devices, wireless sensors, low power electronics and computing platforms enable the realization of the heaven of ambient intelligence by overcoming the hell of physics. Based on contributions from leading technical experts, this book presents a number of key topics on novel hardware developments, thus providing the reader a good insight into the physical basis of ambient intelligence. It also indicates key research challenges that must be addressed in the future.

Ambient Intelligence, an emerging paradigm in the development of information and communication technology, has attracted much attention in recent years. The aim of AmI is to seamlessly integrate technology into people's environment in ways that improve their daily lives in terms of well-being, creativity, and productivity. Ambient Intelligence is a multidisciplinary concept that fully leverages a number of fundamental breakthroughs achieved in the development of new hardware concepts during the past several years. Recent advances in nano and micro electronics, packaging and interconnection technology, large-area electronics, energy scavenging devices, wireless sensors, low power electronics and computing platforms enable realization of the marvels of Ambient Intelligence by overcoming myriad physical challenges. Featuring contributions from leading technical experts, this book presents a number of key topics in hardware innovation, thus providing the reader with critical insight into the physical basis of Ambient Intelligence as well as the key challenges that lie ahead.

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