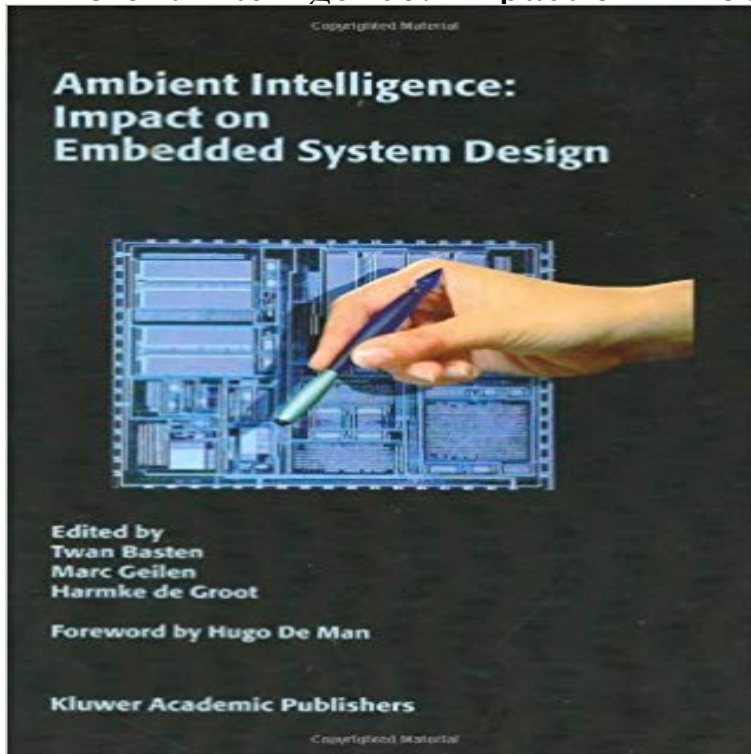


Ambient Intelligence: Impact on Embedded System Design



Hugo de Man Professor Katholieke Universiteit Leuven Senior Research Fellow IMEC The steady evolution of hardware, software and communications technology is rapidly transforming the PC- and dot.com world into the world of Ambient Intelligence (AmI). This next wave of information technology is fundamentally different in that it makes distributed wired and wireless computing and communication disappear to the background and puts users to the foreground. AmI adapts to people instead of the other way around. It will augment our consciousness, monitor our health and security, guide us through traffic etc. In short, its ultimate goal is to improve the quality of our life by a quiet, reliable and secure interaction with our social and material environment. What makes AmI engineering so fascinating is that its design starts from studying person to world interactions that need to be implemented as an intelligent and autonomous interplay of virtually all necessary networked electronic intelligence on the globe. This is a new and exciting dimension for most electrical and software engineers and may attract more creative talent to engineering than pure technology does. Development of the leading technology for AmI will only succeed if the engineering research community is prepared to join forces in order to make Mark Weisers dream of 1991 come true. This will not be business as usual by just doubling transistor count or clock speed in a microprocessor or increasing the bandwidth of communication.

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