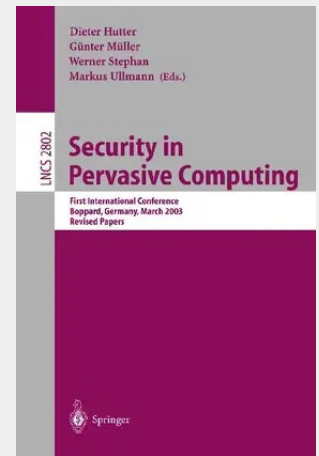


Security in Pervasive Computing

First International Conference, Boppard, Germany, March 12-14, 2003, Revised Papers

The ongoing compression of computing facilities into small and mobile devices like handhelds, portables or even wearable computers will enhance ubiquitous information processing. The basic paradigm of such pervasive computing is the combination of strongly decentralized and distributed computing with the help of diversified devices allowing for spontaneous connectivity via the Internet. Computers will become invisible to the user, and exchange of information between devices will effectively be beyond the user's control. Assuming a broad usage of more powerful tools and more effective ways to use them the quality of everyday life will be strongly influenced by the dependability of the new technology. Information stored, processed, and transmitted by the various devices is one of the most critical resources. Threats exploiting vulnerabilities of new kinds of user interfaces, displays, operating systems, networks, and wireless communications will cause new risks of losing confidentiality, integrity, and availability. Can these risks be reduced by countermeasures to an acceptable level or do we have to redefine political and social demands. The objective of this 1st International Conference on Security in Pervasive Computing was to develop new security concepts for complex application scenarios based on systems like handhelds, phones, smartcards, and smart labels hand in hand with the emerging technology of ubiquitous and pervasive computing. Particular subjects were methods and technology concerning the identification of risks, the definition of security policies, and the development of security measures that are related to the specific aspects of ubiquitous and pervasive computing like mobility, communication, and secure hardware/software platforms.

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