Ambience Intelligence with the Ubiquitous Network, the Embedded Computer Devices and the Hidden Databases

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Abstract

Within 10 years people will have hundreds of interconnected computing devices around them. Many connections will be wireless and many devices will store data in them. With a billion or more mobile users having a hundred devices we face a ubiquitous (IP) network with a very large (100B) small and hidden or embedded databases as well as "always-on" connection to all kind of databases in the network. How to solve, e.g., the challenges of security, replication and resilience? Some of the answers are visible already in today's mobile telephone and Internet networks. But many answers and even possible problems are not known yet. One of them is how fast will this technology take off, that is what might be the technology evolution we are facing.