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Security for Pervasive Healthcare

By Oscar Garcia-Morchon

Shaker Verlag Dez 2011, 2011. Buch. Book Condition: Neu. Neuware - Miniaturization of medical appliances and wireless communication enable the pervasive health monitoring of users in their daily life thus improving users' health and well-being, helping for quick reaction on emergencies, and yet, allowing for cost reduction in the healthcare sector. In the simplest healthcare setting, a fixed set of wireless medical sensors forms a patient area network (PAN) monitoring the user's vital signs. Medical staff can access, gather, or process data directly, or transmit it to a remote healthcare service. Pervasive health monitoring in these diverse situations and locations is carried out by different organizations, such as fitness centers or retirement homes, by means of a medical sensor network (MSN) allowing authorized parties to access to the sensed health information. In this context, the exchange of users' medical data leads to severe privacy and security concerns. Meeting these strict security needs of these ubiquitous medical applications is a big challenge, since privacy of medical data has to be guaranteed all the way from the resource-constrained sensor nodes to the backend services, the system has to fulfill latency needs, and lots of mobility is involved. In fact, ensuring the smooth...



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