

Methods of Flexible Information Storage in MUDR^{II} Health Record

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Abstract

An important research task of the EuroMISE Center – Cardio is the applied research in the field of electronic health record (EHR). In this frame we have proposed a mathematical meta-description of a flexible information storage model and described global system architecture of a 3-layer EHR application. In the paper both of this proposals are briefly described. We have tested the functionality of our solution implementing a pilot EHR application named “Multimedia Distributed Record” (MUDR). According to our experience and test results gained from the MUDR EHR usage we describe an advanced solution MUDR^{II}, which can be applied as a kernel of an EHR application. Since we are a research center and not a commercial company, in our kernel we do not handle all parts needed for a large commercial use in a local environment. To give publicity to our solutions we negotiate with two companies about the application of our EHR kernel into their hospital information systems (HIS) used in the Czech Republic.

Keywords:

Health Records, Information Storage and Retrieval.