

Information System for Biosensors Data Exchange in Healthcare

Monika Simjanoska, Bojana Koteska, Magdalena Kostoska,
Ana Madevska Bogdanova, Nevena Ackovska, and Vladimir Trajkovikj

University Ss. Cyril and Methodius,
Faculty of Computer Science and Engineering,
Rugjer Boskovikj 16, 1000 Skopje, Macedonia
{monika.simjanoska,bojana.koteska,magdalena.kostoska
ana.madevska.bogdanova,nevena.ackovska,vladimir.trajkovikj}@finki.ukim.mk

Abstract. This paper presents a novel cloud information system (BIOHIS - Biosensors Healthcare Information System) whose main goal is to enable vital data exchange obtained from biosensors. BIOHIS corresponds to the requirements of the existing protocols for MRMI (medical response to major incidents). This system aims to ease and improve the data exchange between the different institutions involved in the MRMI protocols. BIOHIS is one step closer to the interoperable data flow among the various medical system interfaces, ensuring structured data capture. The system is intended to use cloud leverages as infinite storage, computing capacities and full time authorized access.

Keywords: Biosensors, Information System, Medical Protocols