

# Michael Walter Scheit



**Research Group:** Section for Medical Information Management and Imaging

**Department:** Center for Medical Statistics, Informatics and Intelligent Systems

**Current academic degrees:** Dipl.-Ing.(FH), Mag.rer.soc.oec, MSc in Engineering

**Previous Universities:** University of Vienna, University of Applied Sciences Technikum Wien

**PhD Thesis:** Standardized semantically interoperable exchange of clinical documents in a distributed Electronic Health Record Environment

**Project title:**

## **Project description:**

The thesis aims at a generic solution for the integration of EHR-standards in manifold arbitrary systems (or classes of EHR-systems sharing the same characteristics), which is of great interest for both the scientific community and healthcare integration initiatives. The General Hospital of Vienna's SAP IS-H m.e.d. system could be seen as such an example. The main objective is thus the exchange of fully structured EHR-documents based on a "dual-model-based" EHR-standard (i.e. HL7 CDA, ISO/EN 13606), the structure of which is characterised by an appropriate formalism (i.e. Archetypes). This discussion will strive to provide a solution for the integration of this formalism, allowing to avoid the reprogramming of EHR-systems for all new and changed archetypes.