

Postgraduate student: **Nomiki Katsiaouni**

Thesis Title:

## **Integrated child psychiatry electronic record system**

### Abstract:

The aim of this thesis is the development of a novel child psychiatry electronic record system, which incorporates a remote access service for authorized users. The contents and structure of the proposed system was organized according to the latest international recommendations.

Aiming towards interoperability within a health information system, we included the ability to encode diagnostic results and their corresponding administrative pharmaceutical protocols to conform to future requirements. In addition, based on the diagnostic results we propose a function for presenting a therapeutic recommendation catalogue for the doctor in charge of each individual case. Finally the proposed system includes functions that take into account parameters such as limitations of supply for a suggested medication included in a treatment or other conditions that may apply to the patient towards a more efficient disease management.

Another important feature of the proposed system is the effective interconnection with modern statistical analysis applications. This ability enables the automatic data export in the required format to be used in epidemiologic studies. The interconnection of the proposed system with appropriate sensors ensures the enrichment of the information and real-time update of every individual's record. Finally, the proposed system was developed taking into account network security issues, ergonomics and user friendliness.

### Examining Committee

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