

ABSTRACT

DRAB JOZEF: *Software application for data analysis and quantification, searching and processing of various dependencies* [Bachelor thesis]

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The aim of this work is to create software for data processing capable of analyzing the shift of the central axis of brain structures from a CT image. These are obtained from examinations of patients using CT devices. The application then automatically analyzes and evaluates the data and looks for various dependencies for amount of displacement its central axis. This application is oriented to be used as a support for young doctors and trainees in the evaluation of emergencies.

Keywords: CT brain, Brain midline shift, Brain Anatomical marker model, Python